

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 24th Year

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Medford Middle School Students Experience Amateur Radio Through Mini-Course



A group of students enrolled in the Medford Middle School Amateur Radio mini-course make a 2-meter packet radio contact, assisted by Mike Schoenfuss, N9GHZ (behind the camera). Mike tells the story about a very successful effort on page 6 of this issue.

House Joins Senate in Resolution

Amateurs Called to Letter Writing Campaign

On May 20, the U.S. House of Representatives joined the Senate in the introduction of a resolution supporting Amateur Radio. H.J. Res. 199 was presented by Rep. Mike Kreidler (D-Wash.) and Rep. Jim Cooper (D-Tenn.), with 13 initial co-sponsors. The House resolution is identical in language to the Senate resolution, S.J. Res. 90, detailed in our last issue.

The American Radio Relay League (ARRL) Board of Directors, at their January, 1993 meeting, prepared the way for the resolutions with a motion by New England Division Director Bill Burden, WB1BRE:

"61. VOTED that our Washington team is authorized to seek formal recognition by the 103rd Congress of the role played by the Amateur Radio Service as a national resource in preparation for and relief from disasters, and for technical progress in electronics."

Original co-sponsors of the House resolution were Reps. Thomas of Wyoming; Murtha of Pennsylvania; Mineta, Doolittle, and Gallegly of California; Deutsch and Peterson of Florida; Costello and Evans of Illinois; LaFalce of New York; Barcia of Michigan; and Frost and Coleman of Texas.

Now the task is to line up many more co-sponsors for both S.J. Res. 90 and H.J. Res. 199, as quickly as possible. Mail from home is always important to Senators and Representatives, but never more so than when one is seeking passage of a Joint Resolution. The potential impact of this type of legislation has been diluted in the minds of some members of Congress by a plethora of resolutions seeking declaration of something like "National Pickle Week." Any potential stigma can be erased by good letters from constituents in support of the resolution; they needn't be long. Reasons for support are contained in the bill itself, perhaps

Please turn to page 8

K2BSA - National Boy Scout Jamboree Station Operations at Ft. A.P. Hill, Virginia

By Gene Santoski, K9UTQ

1220 18th St. So., Wisconsin Rapids, WI 54494

The 1993 National Boy Scout Jamboree will again be held at Ft. A.P. Hill, Virginia the week of August 4th thru 11th, and K2BSA will be on the air for the duration. Approximately 45 hams from 20 some states will be staffing the station again this year. Gene Santoski, K9UTQ, of Wisconsin Rapids will again be part of that staff.

Equipment used at K2BSA is all new, out of the box from the antennas down, and represents virtually every manufacturer of Amateur Radio equipment. The beams are mounted on 60 ft cedar poles installed by the Army Corps of Engineers at Ft. A.P. Hill. It takes about 3-4 days to set up this station! Small antennas are pre-assembled and equipment checked out by Ham Radio Outlet of Woodbridge, Virginia. We operate every mode we can including SSTV, ATV, OSCAR, and all digital modes (packet, cw, RTTY, AMTOR, etc.).

K2BSA handled over 2500 outgoing messages from Scouts at the 1989 Jamboree, and received

K2BSA
and You....
Amateur Radio
at
A BRIDGE TO
THE FUTURE
National 1993
Scout Jamboree

over 400 incoming message to Scouts. Most of this traffic was handled through the packet system, or through the National Traffic System (NTS) nets. Some was passed directly by hometown hams to K2BSA.

Messages to Scouts or Scouters should have sufficient information to allow K2BSA staff to deliver the message. It is very important to include the Scout's full name and Jamboree troop number. This is NOT the Scout's HOME troop, but a special troop number which is assigned to the Jamboree. If this number is not known, then be SURE to include the Scouts's hometown. All messages should be in standard NTS format.

Packet messages should be addressed to:

K2BSA @ K2BSA.VA.USA.NA.

Include Scout's name and troop no. in the title.

All messages received will be passed on the daily 7 p.m. net if at all possible. Messages which do not get passed on the net will be delivered by OA runners the next day.

Please allow time for the message to arrive at the Jamboree before August 9th - there's no point in sending messages which won't arrive until after the Jamboree is over!!

Please turn to page 9

Badger State Smoke Signals: The Wisconsin area's volunteer-produced Amateur Radio newspaper.

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What's Happening

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Edited by Kenneth A. Ebner, K9EN • 822 Wauona Trail • Portage, WI 53901

Swapfests and Other Social Events

SATURDAY, JULY 10, 1993. South Milwaukee ARC Swapfest, Oak Creek, WI. Contact SMARC, P.O. Box 102, South Milwaukee, WI. (414) 762-3235 Ext. 58. (Also see ad on page 15.)

SATURDAY, JULY 24, 1993. Eau Claire ARC Swapfest, Chippewa Falls Fairgrounds. Contact Lis Searing, N9EQR, 1129 McKinley Road, Eau Claire WI 54701. (715) 834-1303.

SATURDAY, AUGUST 14, 1993. Swapfest sponsored by the Northwoods ARC, at Sugarcamp Town Hall, 12 miles north of Rhinelander on Highway 17. VE testing, concessions. Contact: Glen Woods, N9GRF, 6569 Hillcrest Drive, Rhinelander, WI 54501.

SATURDAY, AUGUST 28, 1993. Hobby Electronics Swapmeet, sponsored by the Riverland ARC. Held at the American Legion Activity Building, 731 Sand Lake Road, Onalaska, WI. Admission \$2.00, Tables \$3.00 (picnic type, first come basis.) Contact: Judy Williams, N9LGV, PO Box 621, Onalaska, WI 54650. (608) 783-8028.

SATURDAY & SUNDAY, SEPTEMBER 26 & 27. RADIO EXPO, Lake County, Fairgrounds, Grayslake, IL. Contact CFMC, PO Box 1532, Evanston, IL 60204.

SUNDAY, OCTOBER 10, 1993. Kettle Moraine Radio Amateurs at the Waukesha County Exposition Center, Waukesha, WI. Contact: KMRA Swapfest, PO Box 411 Waukesha, WI 53187-0411.

SUNDAY, OCTOBER 10, 1993. KMRA Swapfest, Waukesha, WI. Contact: KMRA Swapfest, PO Box 411, Waukesha, WI 53187-0411.

SUNDAY, JANUARY 9, 1994. WARAC 22nd annual Midwinter Swapfest, Waukesha County Expo Center Forum, Waukesha, WI. Contact: WARAC Swapfest, PO Box 1072, Milwaukee, WI 53201-1072.

See also the back page and flyers ads for

addition information about many of the above events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the April 1993 meetings column for the latest complete listing. The following are additions or changes since that listing.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC) MEDFORD

Usually the 1st Thur. of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARS Net, Wed. nights at 8:30 PM on 147.75/15. For info contact: Rolland Walty, W9LEE, W4117 Hwy. 102, Westboro, WI 54490. (715) 427-3492

TRI-COUNTY AMATEUR RADIO CLUB

Meetings held at members homes. Usually monthly on Sunday afternoon. Contact: Glenn Eisenbrandt, (414) 563-6502 or John Saterlee, (414) 563-6381.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

July 10, 1993	Marshfield, WI
July 10, 1993	Oak Creek, WI (SWAT)
July 10, 1993	Park Falls, WI
July 24, 1993	Eau Claire, WI (Eau Claire Swapfest)
July 31, 1993	West Allis, WI (MRAC)
July 31, 1993	Tomahawk, WI
August 9, 1993	Appleton
August 14, 1994	Rhinelander, WI (NWARC Swapfest)
August 14, 1994	River Falls, WI
August 14, 1993	Oak Creek, WI (SWAT)
August 18, 1993	West Allis, WI (MRAC)
August 21, 1993	Dubuque, IA
August 28, 1993	West Allis, WI (MRAC)
August 28, 1993	Tomahawk, WI
September 4, 1993	Racine, WI
September 11, 1993	Madison, WI
September 11, 1993	Marshfield, WI
September 11, 1993	Oak Creek, WI (SWAT)
September 15, 1993	West Allis, WI (MRAC)
September 25, 1993	West Allis, WI (MRAC)
September 25, 1993	Tomahawk, WI
October 2, 1993	Racine, WI
October 9, 1993	Oak Creek, WI (SWAT)
October 9, 1993	Madison, WI
October 9, 1993	River Falls, WI
October 10, 1994	Waukesha, WI (KMRA Swapfest)
October 20, 1993	West Allis, WI (MRAC)
October 30, 1993	West Allis, WI (MRAC)
October 30, 1993	Tomahawk, WI
November 6, 1993	Racine, WI
November 6, 1993	Menomonie, WI
November 7, 1993	Kaukauna, WI (Hamfest)
November 13, 1993	Madison, WI
November 13, 1993	Marshfield, WI
November 13, 1993	Oak Creek, WI (SWAT)
November 17, 1993	Oak Creek, WI (MRAC)
November 20, 1993	Dubuque, IA
November 27, 1993	West Allis, WI (MRAC)
December 1, 1993	Racine, WI
December 4, 1993	Stevens Point, WI
December 11, 1993	Madison, WI
December 11, 1993	River Falls, WI
December 11, 1993	Oak Creek, WI (SWAT)
December 15, 1993	Oak Creek, WI (MRAC)
January 9, 1994	Waukesha, WI (Midwinter Swapfest)

Monthly, 1st Sat. Racine, WI
(except January, July & August)
Monthly, 2nd Sat. Madison, WI
Monthly, 2nd Sat. Milwaukee, WI (MRAC)
Monthly, 3rd Wed. Milwaukee, WI (MRAC)
Monthly, 3rd Sat. Loves Park, IL
Monthly, Last Sat. Milwaukee, WI (MRAC)
(except December)
Monthly, Last Sat. Tomahawk, WI
(January thru October only)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

EDITOR: Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

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Subscriptions

1 year	(12 issues)	\$9.75
2 years	(24 issues)	\$18.00
3 years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebner, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than **FIVE DAYS** after the club's meeting. For example, if a club meets on the 4th of the month, the

material should be sent no later than the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebner.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebner.

Swapfest information should be sent to Ken Ebner. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. **THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN.** This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 29¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.60 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

THIRD WEDNESDAY DATES: At 6:30 p.m. at Methodist Manor, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): At 7500 West State St., West Allis, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license or CSCE and two (2) good quality photocopies, plus two forms of identification, such as a driver's license, etc. Also required are a pen and \$5.00 (except Novice) for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

NOTE: CHANGE IN LOCATION.

Unless otherwise noted, examinations are administered beginning at 9:00 a.m. to Noon. at Grafton State Bank, Grafton, WI. Walk-ins are welcome. CW waiver forms are available. Please send a request with an SASE prior to taking an exam, so it is ready when attending the session. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

OAK CREEK, WI (MRAC/VEC)

SECOND SATURDAY DATES: 1:00 p.m. at Wauwatosa Savings and Loan Branch, 6560 S. 27th St., Oak Creek, WI. (MRAC/VEC fee \$5.00)

Tri-County Swapfest at Jefferson, WI. (ARRL/VEC fee 5.60)

Contact Norman McNew, KB9QL, (414) 764-5998 or Joe Mettry, AA9DO, (414) 761-9219

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes

a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.60, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark NZ9B

MARSHFIELD, WISCONSIN

Sponsored by the Marshfield Area ARS. Second Saturday every other month, at St. Joseph Hospital, School of Nursing entrance. Room 124. St. Joseph Ave., Marshfield, WI. Walk-ins Welcome. Contact Walter Friant, WBOKIN, 2310 Wal-lonnie Dr., Marshfield, WI 54449. (715) 387-3870

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1183.

PARK FALLS, WI - JULY 10, 1993

There will be an Examination Session on Saturday July 10 at 10 AM in the Park Falls City Hall Complex. This Exam session is being sponsored by The Flambeau Amateur Radio Club. Cost of the exam will be \$5.60 except for those taking only Elements 1a and/or 2 (This includes those taking 1a to upgrade from Technician to Technician w/HF privileges). Also the Novice and Technician written exams (Elements 2 & 3A) will be using the new question pool which goes into effect on July 1. This Exam Session is being run under the ARRL/VEC. For more information contact: Art Dunham, NC9G, 656 7th Ave S, Park Falls, WI 54552, (715) 762-4948 or 762-5256 or 762-3221, or on Packet @KA9EOK.WI.USA.NA

Walk-ins will be accepted but would appreciate advance registration. Be sure to bring Identification and the original and photocopy of your licence if upgrading. If you don't have a photo ID you will need two forms of ID.

EAU CLAIRE, WI - SWAPFEST

KAUKAUNA, WI - SWAPFEST

MANITOWOC, WI, LAKESHORE HAMFEST

RACINE, WI - BIG BOY TOY SHOW

RHINELANDER, WI - NWARC SWAPFEST

STEVENS POINT, WI - CWRA SWAPFEST

WAUKESHA, WI - KMRA SWAPFEST

WAUKESHA, WI - MIDWINTER SWAPFEST

See the Swapfest column for additional information and contact persons.

DUBUQUE, IOWA - ARRL/VEC

Amateur examinations will be held on Aug. 21 and Nov. 20 in 1993.

Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact Mike Jozefowicz, NSOU, 2735 Hickory Hill, Dubuque, IA 52001. Or call Mike at 319-582-8563. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

APPLETON, WI - ARRL/VEC MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team.
Contact: Larry Siebers, (414) 788-3823

MENOMONIE, WI

The Northern Wisconsin RC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

RIVER FALLS, WI

Contact: Chuck Kelly, KA9YRV, (715) 425-2428.

LOVES PARK, IL

Third Saturday of every month. Northern IL Volunteer Examiners (Great Lakes ARC VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Paul K. Dean, WB9HGX, (815) 987-6754.



SSB
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WANTED: 6-Meter Linear Amp. Swan Mark VI or similar. I will pick up. John Leer, N9QWK, 5202 Bean Rd. Eau Claire WI 54703. (715) 835-5752.

FOR SALE: TS-130V transceiver, 80-10 with CW filter., PS-20 power supply, MC-30S mic. station speaker, keyer, bench paddle. Contact AA9BA, (414) 685-5018.

FOR SALE: By the Taylor County Area Amateur Radio Club, a Spectrum Communications Model TRA-1 "Time-Out" Timer Reset Annunciator Board. (courtesy tone beeper). Puts out a tone "beep" on repeater transmitter about 1 second (adjustable) after received signal drops, allowing time for breakers. Resets repeater time-out timer when tone is emitted. Trim pots (on board) for adjustable time delay and tone duration. Triggers Ider tone generator for tone "beep". CMOS logic for super low current draw. DC input: +5V at 1 mA max. Never been used (bought a different controller). Can be used with a repeater or other possible applications. Asking \$20.00, OBO. Contact: Bob Braun, KB9BLV, phone (715) 654-5552 (work days) or (715) 654-5551 (home evenings).

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Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Red Cedar Repeater Association of Knapp has become ARRL affiliated, with WB9YMB as President.

N9NLO says to listen for the Boy Scout Special Events Station August 1 through 12 at Fort AP Hill, Virginia; ninety scouts from Waukesha will be there, one of whom is a ham operator.

The annual Green Fox ARC, renewed as a Special Service Club, will have their picnic August 21.

The Green Bay Mike and Key Club also renewed as a SSC.

N9LLT is AEC for OZARES.

Arrowhead RAC picnic August 21 at Chambers Grove.

If you are interested in becoming an ARRL Official Relay Station, contact K9KSA, or if you're interested in being a Public Information Officer, ask K9ZZ.

New Frequency Coordinator is WB0WOT in Beldenville; thanks to WA9JOB for his many years of hard work.

Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3984	1100	0600	W9AYK
BEN	Yes	3985	1700	1200	KE9VU
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	KA9FVX
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	2330	1830	KA9OMC
(Mondays CST) (Menomonie Area)					
Gr. Bay	No	72/12	0145	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0100	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1300	0800	WA9OAY
(LSB Sunday)					

Watertown ARC will provide communications for Riverfest, Cooney Artfest and Circus during August.

Sorry to report Silent Keys W9PPX of Rhinelander and KC9CX of Fort Atkinson.

Tests: August 7 Appleton; August 14 Madison, River Falls, Oak Creek; August 18 West Allis; August 28 West Allis, Tomahawk.

Thought for the month: *Once you open a can of worms, the only way to recan them is to use a larger can.* □

Amateur Radio Weather Spotters Provide Advance Warning of Ripon Tornado

June 8, 1993



This account actually begins on Monday, June 7, as Severe Weather Watches are issued across Wisconsin. The Green Fox Amateur Radio Club, Inc. A.R.E.S. net was activated several times through Monday as strong storm cells passed within our spotting area. (We coordinate our in-the-field spotting operators with at least one operator that monitors the weather radar plots provided by the local cable television company in Ripon. Based on this operator's reports, as well as National Weather Service reports and requests received from Sullivan and Madison, WI, we are able to accurately track cells of concern as they approach, enter and exit our operational area). While no severe weather was reported in our area, the forecast for Tuesday was relayed to all the participating net stations - severe weather was to be anticipated and members were reminded to charge up their HTs.

On Tuesday, a Green Fox A.R.E.S. informal net was activated on 146.955/355 at approximately 1:30 p.m., following the issuance of a Tornado Watch for our area. Several GFARC members monitored television radar plots and transmitted updated net listeners on current weather activity. Although all of the early potentially severe storm cells passed north or south of our area, the situation changed in the late afternoon as radar indicated a large and growing storm cell moving through the

Portage / Baraboo area. This storm was headed directly into our area, with an estimated ground speed of 45 miles per hour.

Jack Bremer, KB9WC, was the first operator to deploy for spotting the oncoming storm cell. Jack left his farm on the south side of Big Green Lake and drove to the intersection of County Highways O and K where he could look over the west side of the lake and Lake Puckaway to the southwest. Jack's first report was that he could see a very dark area over Lake Puckaway moving rapidly toward Big Green Lake. Jack's initial report, coupled with an updated radar report from the National Weather Service brought the A.R.E.S. net to a formal status. Within a few minutes, Jack reported to the net that he was watching a massive wall cloud with a very definite rotation. As the cell neared Jack's location, he reported rain shafts rapidly rotating under the wall cloud and told the net that he was leaving his spotting location as it appeared that the cell was heading directly for his location. Jack returned to his farm to warn his family and telephoned a nearby restaurant to warn them of the imminent weather situation.

As Jack's reports were received by the net, Kurt Silber, KB9MQ, assigned L.J. Hemmer, WB9TFJ, as liaison station for the Baraboo Skywarn Net, who dutifully relayed reports thru Baraboo to the National Weather Service in Madison. Additionally, John Stanton, KD9GD, reported that he was enroute to the Ripon Police station to act as liaison with local officials. (John, through the last few years, has developed a solid rapport between the Ripon Police

Please turn to page 8

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Severe Weather Warning Abilities Enhanced in Clark County

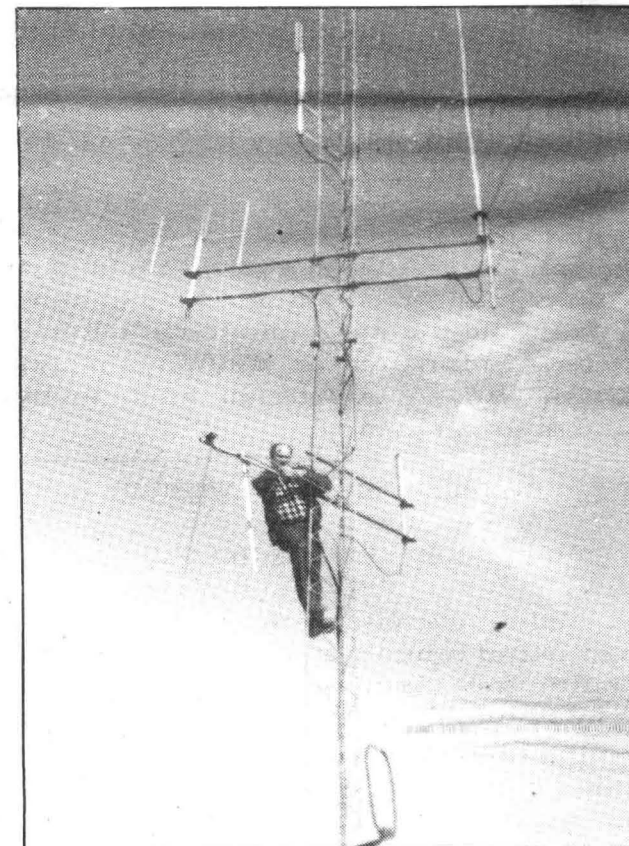


New two-meter radio equipment at the Clark County Sheriff's Department is checked out by Florence Studinski, Director of the Clark County Office of Emergency Government (at left) and former Clark County Sheriff Dallas Neville (right), as Mike Schoenfuss, N9GHZ, Clark County ARES Emergency Coordinator operates.

Advance warnings of tornadoes and other severe weather in Clark County recently took a step forward with the installation of a 2-meter Amateur Radio transceiver at the Sheriff's Department in the Courthouse in Neillsville.

During severe weather and tornado watches, personnel at the Sheriff's Department will be able to monitor the severe weather nets conducted by Amateur Radio Emergency Service (ARES) groups in adjacent counties.

In addition, when available, volunteer Amateur Radio operators in Clark County will man the radio and provide two-way contact with the weather nets, as well as with other hams in Clark County, and pass along any reports of tornados or other severe weather conditions to Sheriff's Department personnel.



Phil Spratt, from Two-Way Radio Company of Eau Claire, installs the antenna for the new 2-meter radio on the tower at the Clark County Courthouse in Neillsville. Phil is an Amateur Radio operator.

Photos courtesy Mike Schoenfuss/N9GHZ

- Mike Schoenfuss, N9GHZ
Emergency Coordinator,
Clark County
Amateur Radio
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Licensed Hams Needed to Help at 1993 National Boy Scout Jamboree

Organizers of this year's National Boy Scout Jamboree are looking for licensed amateurs who are Scouts to help staff the Radio Merit Badge Tent. The event will be August 2 to 9, in Fredericksburg, Virginia. If you're interested, contact Ray Moyer, WD8JKV, at 214-580-2595.

- ARRL Bulletin ARLX008, 5/11/93

FCC Issued Call Sign Update

The following is a list of the FCC's most recently issued call signs as of June 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0NG	KG0GE	N0XCO	KB0LGZ
1	AA1GS	KD1PE	N1PGU	KB1AXJ
2	AA2NZ	KF2PE	N2VAX	KB2QGL
3	AA3ER	KE3II	N3PEV	KB3AUP
4	AD4ES	KQ4VO	++	KE4BWU
5	AB5NQ	KJ5MN	++	KC5AWV
6	AB6TV	KN6MM	++	KD6WHW
7	AA7WF	KI7NO	++	KB7VBN
8	AA8LI	KG8BM	N8YVY	KB8OZJ
9	AA9HG	KF9PN	N9TRQ	KB9IQE
HAWAII	++	AH6MS	WH6MR	WH6CQN
ALASKA	++	AL7OY	WL7KU	WL7CHW
PR	++	KP4VI	++	WP4MAP

++ All call signs in this group have been issued in this area.

- ARRL Bulletin 63, 6/16/93

ARRL Supports Changes in HF Digital Rules

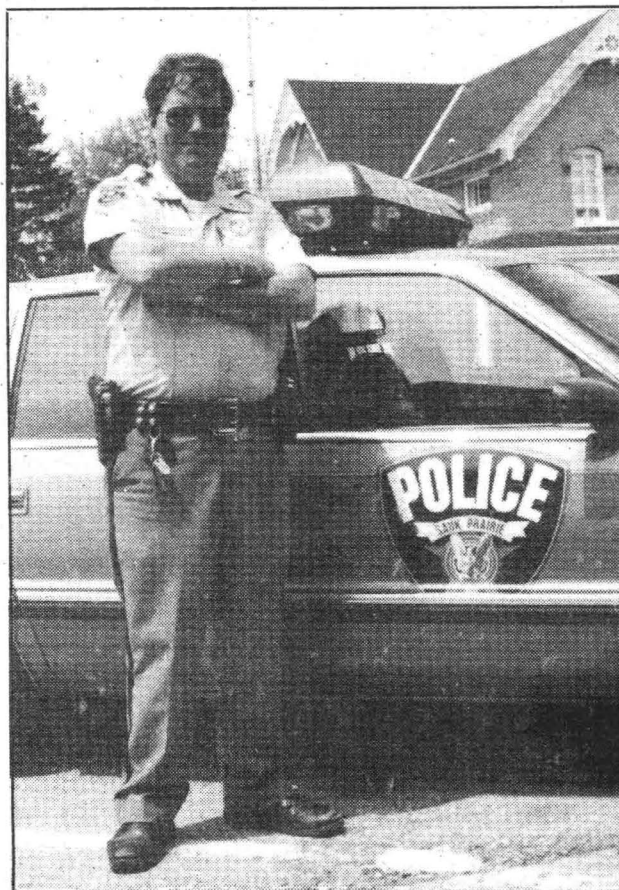
The American Radio Relay League has filed comments with the Federal Communications Commission on its petition to change the amateur rules regarding digital communications below 30 MHz. That petition, RM-8218, made on February 1, 1993, on recommendations of the League's Digital Committee, proposed specific HF subbands for automatically controlled data communications, including third-party messages.

The League in its comments, filed May 17, recognized additional input from interested amateurs since the February 1 petition, but said those comments went a step further than RM-8218 proposed. The League asked that its current petition be considered now, as originally presented, leaving further changes to be addressed later.

Meanwhile, the ARRL Digital Committee has submitted a further report on the subject to the Board of Directors for consideration at their meeting in July.

The League's current petition was based on the experience of a group of amateurs using automatic control on HF under a Special Temporary Authori-

One of Sauk-Prairie's Finest - and One of Wisconsin's Newest Radio Amateurs



Don Schellin, a 15-year veteran member of the Sauk-Prairie Police Department, recently became part of the Badger State's growing Amateur Radio population. If you're driving through the "twin towns," and the dreaded red-and-blues come on behind you, it might be N9TWC. Don studied for his Technician license at classes given by the Yellow Thunder Amateur Radio Club in Baraboo. Don is also Scoutmaster of Prairie du Sac Troop 173 of the Four Lakes Council of the Boy Scouts of America.

zation originally granted in 1987, as well as on a survey of interested amateurs published in *QST* which produced more than 500 responses.

One thing that survey indicated was significant opposition to allowing automatically controlled data stations *random* use of frequencies within the HF bands.

A final extension of the ARRL's STA continues while RM-8212 is being considered.

- The ARRL Letter, 5/25/93

Busiest Airport in the World

Members of the Fox Cities Amateur Radio Club will operate using the club call of W9ZL from the Experimental Aircraft Association Fly-In and Convention in Oshkosh, WI, on July 29 through August 1, 1993. They will be operating from "Pioneer Airport," adjacent to the EAA Aviation Museum. They will operate on the general phone portions of the HF bands, as well as RTTY and CW as conditions permit. The club also will be giving "on grounds" convention information on 146.250 simplex. Hours of operation will be 8:00 a.m. to 5:00 p.m. daily. The W9ZL station will also handle messages into and out to the EAA Convention thru the Wisconsin Sideband Net daily. Proper QSL and SASE only to: Wayne Pennings, WD9FLJ, 913 N.

FCC Outlines Plan for Club, Military Stations

The ARRL has written to the FCC's Private Radio Bureau that it is "ready, willing and able to participate as the Club and Military Recreation Station Call Sign Administrator" and has requested that the Commission enter into an agreement with the League to that end.

The League further reiterated reasons for its belief that the magnitude of the task justifies limiting the service to just one Administrator.

This comes as the FCC has now amended its amateur service rules to provide for volunteer organizations to administer a system designed to provide special call signs to club and military recreation stations. This action was authorized by the Telecommunications Authorization Act of 1992 and will take effect July 19, 1993.

Organizations selected for the new system will be known as "Club and Military Recreation Station Call Sign Administrators."

An administrator must enter into a written agreement with the FCC and public notices will be issued listing the administrators. To be an administrator, the organization must exist for the purpose of furthering the amateur service. Its membership must include at least one percent of the amateur operators licensed by the FCC, and it must be capable of serving as an administrator in all places where the amateur service is regulated by the FCC.

An administrator must agree to accept and process all properly-completed license application forms from the trustees of club stations and from the custodians of military recreation stations without regard to race, sex, religion, national origin or membership (or lack thereof) in any amateur service organization.

The organization cannot charge a fee or accept any form of reimbursement for services provided by an administrator.

Within ten days of receiving an application, an administrator must provide the FCC's licensing facility at Gettysburg, Pa., with the actual license document, including the call sign. The document must be ready for endorsement and mailing.

Each administrator will be assigned initially a block of call signs having a two-letter prefix from the NA-NZ "by three" series. An example of a block would be NA1AAA through NA0ZZZ. There are 26 possible blocks. The administrator must issue public announcements detailing the policies and procedures of its call sign system.

Dates for accepting applications from potential administrators will be announced by FCC Public Notice.

- The ARRL Letter, 5/25/93

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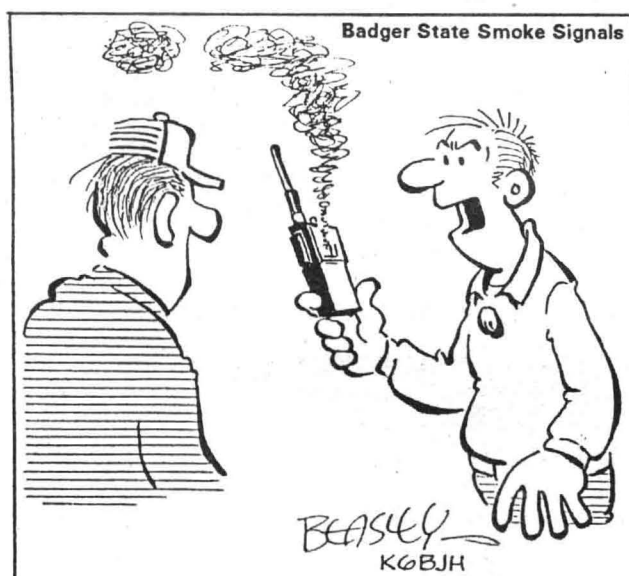
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Medford Middle School Mini-Course Gives Students Ham Radio Experience

By Mike Schoenfuss, N9GHZ
P.O. Box 401, Abbotsford, WI 54405-0401

Earlier this year, the Medford Middle School in Medford, Wisconsin again offered its students the opportunity to broaden their horizons by signing up for one of several mini-courses. Course topics ranged from hobbies, to sports-related activities, to arts and crafts. This was the fourth consecutive year the mini-courses have been offered at the school, which includes grades five through eight. Most of the instructors for the courses are teachers at the school, but some come from the community and surrounding area as well. The courses run for four consecutive Friday afternoons.

This year, Frank Kleczewski, K9LRS, of Medford, a teacher at the middle school, decided to offer a mini-course about Amateur Radio. A total of fourteen students, 13 boys and one girl, signed up for the course. Frank contacted Mike Schoenfuss, N9GHZ, of Abbotsford, to assist him with the course. Mike, in turn, contacted Guy Boucher, KB9GPJ, Marshfield, for additional help.

The first class was held on February 12. Frank showed two videos to the group, *The New World of Amateur Radio* and *Amateur Radio's Newest Frontier*. On February 19, K9LRS and N9GHZ introduced the students to Morse code, dividing them into two groups, and used both a code practice oscillator with a straight key and computer-based software to teach them how to both send and receive some of the Morse code characters. The computer software included a game for testing Morse code receiving skills, and a sending analysis module, which the students particularly enjoyed.

On February 26, the students were again separated into two groups. Each group then assembled a different, small electronics kit with the assistance of N9GHZ and K9LRS. In the process of kit-building, the students learned about proper soldering techniques and safety, and about the different types of electronic components and what purpose each serves in a circuit. Many of the students asked for, and were given, copies of the sales brochures for the company from which the kits were purchased.

What all the students were really looking forward to, though, was the fourth and final class of the mini-course on March 5th. On that day, they were going to have an opportunity to make some actual, live two-way Amateur Radio contacts.



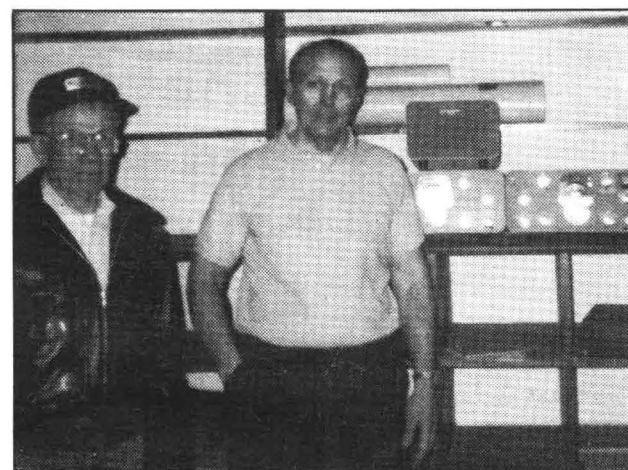
Some of the mini-course students at Medford Middle School watch their fellow students in another classroom via 440 MHz fast-scan amateur television (ATV).



Guy Boucher, KB9GPJ, of Marshfield (at far right, wearing cap), demonstrates the use of a 2-meter handheld transceiver to students.

Helping with the final class were K9LRS, N9GHZ, KB9GPJ, and Jim Morrison, KF9MN, of Marshfield. Four modes were set up for the students to use.

In one classroom, KB9GPJ showed 440 MHz



Jim Morrison, KF9MN, Marshfield, and teacher Frank Kleczewski, K9LRS, Medford, are shown with the Heathkit SB-301/SB-401 station they used to demonstrate HF operation during the Amateur Radio mini-course during February and March of this year.

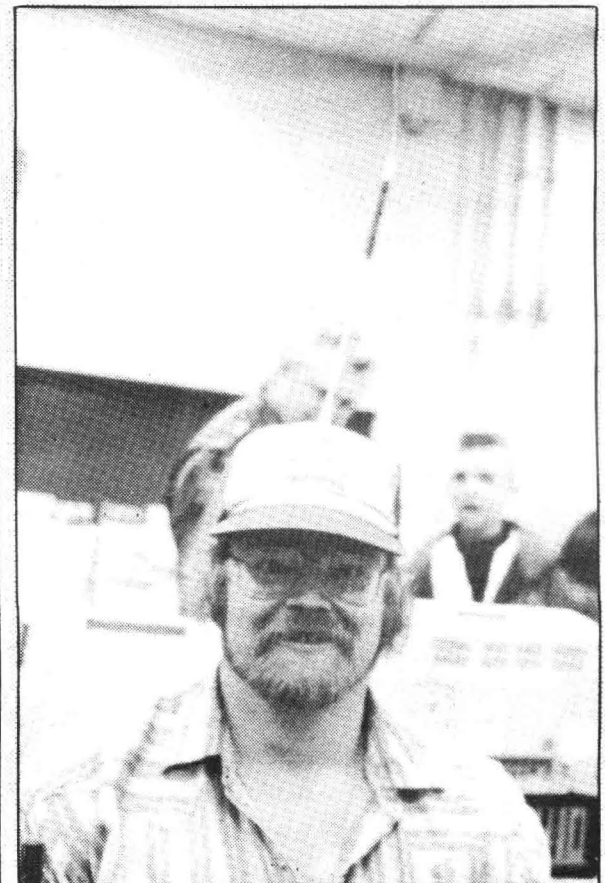
- Photos courtesy Mike Schoenfuss/N9GHZ

fast-scan Amateur television. In a second classroom, N9GHZ demonstrated 2-meter voice and packet radio. This classroom also contained a receive-only ATV station on which the students could see their classmates in the first classroom. The Medford students had an opportunity to talk on two meters, using a handheld transceiver through the Medford repeater, with some other students from Gilman High School in western Taylor County who are also ham radio operators.

K9LRS and KF9MN were located in the third-floor "attic" of the school building with the HF station, which consisted of a Heathkit SB-301 receiver and a Heathkit SB-401 transmitter and a dipole antenna. They made contacts with stations in Pittsburgh, Atlanta, Nebraska, and West Virginia. They also checked into the 20-meter Maritime Net out of New Jersey.

The students were broken into three groups, and rotated between the three station setups. Both the students and the hams had a very enjoyable time! □

Heeeeeere's ROY!



A familiar sight at the Madison Swapfest every April is Rick Plouffe, who lives not far from Baraboo. On special occasions, he dons his "appendage cap," but seems these days more likely to keep it hidden under his table. He did don it for the BSSS photog, though, and this is the pictorial treat that was the result. The photog and camera survived, and so did Rick. He's one of Wisconsin's newest hams, is active on two meter FM and packet, and sports the call sign N9ROY.

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The Computer Corner

By Stan Kaplan, WB9RQR
11541 North Laguna Drive
Mequon, WI 53092-3119

This is the first in a series of articles on computing and computers, always from the point of view of use by hams. It is not a "power users" article, but rather will be aimed at practical tips, approaches and news of interest to the amateur community. The old XT with 640k of memory will be the base line - these are beginning to show up as good values at swapfests, and they are plenty powerful for amateur use. So here we go.

First is a news item from the December 1992 issue of *NASA Tech Briefs*. A revolutionary input device has been invented, which may be as important to computing as the invention of the mouse, and which may eventually cost about the same as a mouse.

A fist sized "data egg", invented in 1990 by Gary Friedman of the Jet Propulsion Laboratory, fits in the palm of one hand and permits single handed typing while "walking, running, driving, riding a bike, reclining on a sofa or even floating in space". (A use left out of the list in quotes above is holding a microphone in the other hand, or even working a key with the free hand. Just think, we can operate and dupe at the same time!)

The gadget sports seven buttons, worked in various combinations to input all the letters of the alphabet, punctuation marks, and even the control and cursor keys found on a standard computer keyboard. The inventor says that while it is not as fast as typing with two hands, he can now type about 30 words per minute with the device. It takes only about an hour to learn to use it for the first time.

You are undoubtedly picturing this data egg cabled to a computer, and that is definitely one configuration. On the other hand, the working model Friedman is now using has no wires. It has a built-in buffer which stores the data, which is later downloaded to a computer for permanent storage and printing. Tethered or untethered, it works both ways.

The device may also be a boon to handicapped or bedridden individuals, who have difficulty using two hands with a conventional keyboard. There are all sorts of possible uses under a great many circumstances, but the most appealing to us hams is the freeing of one hand to do our communications thing. Watch the news for the Data Egg - it will definitely develop into a hot item.

Tip of the month. Keep two copies of those important files, CONFIG.SYS and AUTOEXEC.BAT in your root directory. How? Simply enter these commands from DOS:

```
COPY CONFIG.SYS CONFIG.SAF
COPY AUTOEXEC.BAT AUTOEXEC.SAF
```

while in the root directory of your hard drive. You will wind up with second copies of each (CONFIG.SAF and AUTOEXEC.SAF; SAF = SAFety copy). Why? If you are messing around with your computer's configuration and you make changes to the CONFIG.SYS or AUTOEXEC.BAT files, you always have a copy of the way it was before you started "messin' 'round". Also, if you install new software that has the rude habit (many do) of changing these important files without your permission, you can always undo what the instal-

lation software did - even if it asked your permission first! If you find that you want the files restored to their original state, simply reverse the process with the DOS commands:

```
COPY CONFIG.SAF CONFIG.SYS
COPY AUTOEXEC.SAF AUTOEXEC.BAT
```

On the other hand, if everything seems to be working fine with the new configuration files after a few days, then make new second copies of these two files.

This is simple, it works, and can save much grief. Do it now.

Got a topic you want addressed in this column? Let me know and I will try to work it in. □

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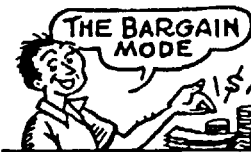
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- The ARRL Letter, 5/25/93



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House Joins Senate in Pro-Amateur Resolution

Continued from front page

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code. The mailing address for Senators is The Hon. _____, U.S. Senate, Washington, D.C. 20510, and for Representatives, the Hon. _____, U.S. House of Representatives, Washington, D.C. 20515.

- *The ARRL Letter*, 5/25/93

Rep. Mike Kreidler's introductory statement for H.J. Res. 199 is printed below.

Statement of Rep. Mike Kreidler

Mr. KREIDLER. Mr. Speaker, I am introducing, along with my colleague, Representative Jim COOPER of Tennessee, a joint resolution to recognize the achievements of amateur radio operators and to declare that regulatory support for these radio operators should be national policy. This resolution is fully supported by the American Radio Relay League, the principal representative of amateur radio operators who provided invaluable assistance in the development of this joint resolution.

I am introducing this resolution because I feel that the amateur radio service must be recognized for the important role it plays when disasters strike. Their role was brought to my attention in January of this year, when a severe windstorm struck western Washington causing damage to trees, buildings, and telephone lines, making public safety and other necessary communications nearly impossible. Fortunately, a group of radio amateurs stepped in to handle important messages for the authorities and public until communications were back to normal. This was not an isolated incident. In disasters like Hurricanes Hugo and Andrew, Typhoon Iniki, the Loma Prieta earthquake, and the Mt. St. Helens eruption, ham operators have been there to help.

Amateur radio operators have also provided an important public service internationally, in the face of other types of disasters. I was pleased, although not surprised, to see that many recent reports from war-torn Bosnia have been transmitted by amateur radio operators. They have played a crucial role in keeping the lines of communications open - literally - for citizens of the former Yugoslavia.

I have recently discovered that the help offered by amateur radio operators in these emergencies is not the walkie-talkie communications you may think of when you hear the term "ham" radio operators. In fact, the technologies they use are highly sophisticated. For example, they've been very active in the development and use of low earth orbit satellite technology.

It is about time for Congress to recognize these achievements. With about 600,000 licensed amateur radio operators licensed in the United States alone, I'm sure that every Member of the House has had similar favorable experiences with the amateur community and will support this resolution.

- *The ARRL Letter*, May 25, 1993

Ripon Tornado Report

Continued from page 4

and the Amateur Radio community). Sherm Carr, W9NGT, reported into the net as liaison with the National Weather Service in Sullivan, Wisconsin. The NWS in Sullivan was particularly interested in spotter observations of this cell within their coverage area.

As a result of reports relayed to NWS in Madison and Sullivan, a tornado warning was issued for Green Lake County, and local radio stations began retransmitting the warning to area residents. Within 5 minutes after these warnings were issued, Blackbird Point on Big Green Lake was struck by the tornado. The tornado tracked along the shoreline for about 1 mile before angling inland, destroying farms in its path. Had this not been a rural area, the damage would have been several magnitudes greater than the estimated \$5.5 million damage sustained along the south side of Big Green Lake.

After initially remaining on the ground for several miles, the tornado lifted and created relatively little damage until it approached the Ripon area.

I (Steve Loeffler, WB9ZRE) was positioned on the Green Lake - Fond du Lac County line on Highway 23 where I watched the cell approach. As the wall cloud, which I conservatively estimated at 3/4 mile in diameter, approached, I described a large column of rain, approximately 1/3 mile in diameter rotating under the wall cloud, however, no confirmation of a funnel could be made due to the rain density. (No distinct funnel, no debris, and no electrical discharges due to powerline destruction were observed). I reported that the color in the interior of the wall cloud was a bright, dense, blue-green color (this color is due to stored electrical potential generated by the cell), and estimated the ground speed of the meso-cyclone at 45-50 miles per hour.

Shortly after this report was given, Ripon activated its siren warning system, and the local radio station advised all Ripon area residents to take immediate cover.

As the wall cloud passed over me, I turned my vehicle from the west-bound shoulder of the road

the to east-bound shoulder to get a better observation angle of the rain mass as it passed about 1/4 mile south of my location. Shortly after I made this change, I caught a glimpse of what looked like a funnel rotating within the rain shrouded area below the wall cloud, however, I could not be sure and reported a possible funnel observation, but not a confirmed sighting. Within a minute or two, the rotating rain mass hit the top of the ridge to the west of Ripon and the rain mass was disrupted enough that I could see a distinct funnel rotating within the rotating rain mass. I immediately radioed and repeated confirmation of the funnel sighting and estimated the funnel size at 1/4 mile in diameter. I also estimated that the funnel would enter the city within 30 seconds near the Ripon College area and was tracking northeast toward the industrial park. As the rain mass and funnel entered the City of Ripon, my Toyota Corolla was buffeted by tremendous winds and rain so dense, I could not see the hood of my car. The winds I estimated at 75-85 MPH hit the car broadside as they raced toward the funnel area.

The winds and rain abated within 1 minute to the point that I could just see the road and radioed to the net that I was going to pursue the rotating rain mass/funnel. I headed back into Ripon as the cell hit the northeast side of the city and radioed in damage observations as I passed through the north side of Ripon.

As I left Ripon on Highway 44, I switched frequencies to the Oshkosh 146.24 repeater where the Oshkosh Skywarn net was operating. I relayed that Ripon had been hit by a tornado, and described observed damage as well as an estimated track and speed of the cell. Damage was evident for several miles northeast of Ripon along Highway 44. I advised the Oshkosh net that the cell was tracking directly for Oshkosh and that it would arrive in approximately 10-15 minutes. As I approached the village of Pickett, Wisconsin, I was engulfed in heavy rains and high cross-winds and was concerned about overtaking the funnel. I backed off from the cell and changed course to an east-west road on the east side of Pickett. I stopped the car about 2 miles east of Pickett and observed and reported the cell's position. (I also noted a wall

Continued on page 9

"Spectrum Auctions" Portend Little Effect on Amateurs

The matter of possible "auctions" of radio spectrum has been in the news lately, as negotiations continue for the U.S. budget for Fiscal Year 1994 (which begins October 1, 1993) continue. The budget is, according to American Radio Relay League Washington Area Coordinator Perry Williams, W1UED, partially based on income arising from competitive bidding for spectrum assignments. To make this budget item work, Congress must approve a change in the Communications Act.

"Congress makes the laws (Williams writes), setting a framework within which the Federal Communications Commission (and other government agencies) must operate. Within that framework, the FCC may construct further regulations, following the scheme set down by the Congress in the Administrative Procedures Act. For communications, the main law is the Communications Act of 1934, as amended.

"The House Energy and Commerce Committee has among its tasks the drafting of legislation affecting telecommunications. In this particular instance, the action is part of an overall Budget Reconciliation Act, a mammoth bill (not yet assigned an H.R. number) being worked on by most Congressional committees within their respective areas of expertise.

"At some point, when each of the committees has completed its part, the reconciliation bill will come to the floor of the House for vote.

"The Senate must also approve a reconciliation bill. If there are differences between the House and Senate bills, a Committee of Conference will work them out. Both houses must concur in the final result which then goes to the President. If he signs the bill, it becomes a public law and is binding on the FCC and on you and me.

"The 'auction' language does not seem to be a cause for alarm to the Amateur Radio Service. An important section of the legislation approved by the Commerce Committee reads:

"USES TO WHICH BIDDING MAY APPLY - A use of the electromagnetic spectrum is described in this paragraph if the Commission determines that

"(A) the principal use of such spectrum will involve, or is reasonably likely to involve, the licensee receiving compensation from subscribers in return...."

"This section would seem to rule out bidding for amateur frequencies, police and fire department frequencies, broadcast frequencies, and even for nationwide internal-use systems such as the one that the United Parcel Service (UPS) was contemplating for itself.

"The proposed new personal communications services (PCS) and land-mobile systems of either a private or common carrier nature would apparently be subject to the proposed bidding process.

"Another bill of interest is the Emerging Telecommunications Technologies Act of 1993 (ETTA). Under this bill, the Government would be required to turn over a total of 200 MHz of its frequencies below 6 GHz for the FCC to use in fostering new technology. Since amateurs derive 95% of their spectrum from sharing with Government stations, there is some potential danger to the Amateur Radio Service.

"The Senate version of ETTA, S.335, contains language protecting the Amateur Radio Service from harm, but the House version, H.R.707, does not. Like the auction bill, ETTA has also been incorporated in the Commerce Committee's piece of the Budget Reconciliation Act.

"Needless to say, the ARRL Washington team will be keeping a close watch on the whole process," Williams said.

- *The ARRL Letter*, 5/25/93

Area House, Senate Resolution Supporters

According to *The ARRL Letter* of June 15, no senators from Wisconsin or Minnesota have signed as co-sponsors of S.J. 90. One Wisconsin representative, Toby Roth, has signed as co-sponsor of H.R. 199. No Minnesota representatives have signed onto the bill.

President Clinton Congratulates Astronauts on Using Ham Radio

Shortly after a successful SAREX school contact June 22, the astronauts of STS- 57 had an opportunity to speak with U.S. President Bill Clinton via regular space shuttle communications. During their talk, President Clinton said, "Let me just say one last thing about something that's very important to me I understand that later in the mission, Janice (Voss) and Brian (Duffy, N5WQW) are going to be talking with school children around the world. And you may know that my daughter is a big fan of the space program. She's off at summer language camp now. But I want to just tell you how much I appreciate the fact that you're making an international education project out of this mission.

That's very important to me."

Astronaut Duffy replied, "Mr. President, we find that using Amateur Radio is an excellent way of communicating with children all around the world, and we're also able to excite them by using space and Science. And letting them see space and science in action, we're able to excite them and hope they'll study harder." The President continued, "You have no idea -- you may be on this mission creating thousands of scientists for the future just by the power of your example and by this direct communication."

- ARRL Bulletin ARLS039, 6/22/93

K2BSA at the National Boy Scout Jamboree

Continued from front page

K2BSA Daily Schedule of Operations

0000 - 0730: Night hours - adult staff only.

0730 - 0900: Station closed - staff meeting

0900 - 1700: Demonstration operation: Scout operators and K2BSA demos. Formal station tours. Counter open for message traffic.

1700 - 2230: First priority to skeds. Scout and adult staff operation second priority.

2230-2400: Late evening hours - staff operation. Scouts permitted only by permission of Scoutmaster.

Scout HF Frequencies

75 Meters	3.990 MHz
40 Meters	7.290 MHz
20 Meters	14.290 MHz
15 Meters	21.360 MHz
10 Meters	28.350 MHz

The Jamboree station, K2BSA, will have five HF stations in the main operating tent, with single-band beams for 10, 15 and 20 meters, and dipoles for 12, 17, 40 and 80 meters. One of the stations will be equipped for digital (RTTY/AMTOR/Packet) operations.

As much as possible, K2BSA will operate on or near the traditional Scout frequencies listed above. Most of the operation will be on voice (SSB), although visiting Novice operators may choose to operate CW.

Although the station will be operating 22 hours a day (closed between 0730 and 0900 EDST), the best times to contact K2BSA are between 0900 and 1700 EDST (1300 to 2100 UTC), and between 1900 and 2230 EDST (2300 to 0230 UTC), when the Scouts are most likely to be on hand.

Scheduled Contacts

If you would like to arrange a sked home for a Scout attending the Jamboree, have the Scout come to the station and sign up for a specific time and frequency (first-come, first-served.)

We recommend that all skeds be set up in the evenings between 1900 and 2230 EDST, on or near the Scout frequencies on whatever band is appropriate for the distance.

Ripon Tornado Report

Continued from page 8

cloud several miles to the east of my position with distinct rotation, and even observed a short funnel form under the wall cloud. I could see this funnel was barely able to sustain itself, and the wall cloud and funnel broke up two or three minutes later).

As the cell passed through the north side of Oshkosh, I was no longer able to clearly observe the cell and checked out of the .24 net and returned to Ripon. As I approached the city limits, I was

informed that the city was now closed to all incoming/outgoing traffic. As I know several side roads, I was able to sneak in to check on my family and home, which was in the direct path of the funnel.

On arriving home, I found that everyone was well and upon observation, my home probably suffered the least damage in the neighborhood - 1/2 of a tree, one antenna broken - 1 bent, top 2 sections of the tower slightly bent, 1 broken window, a couple handfulls of shingles torn off the garage, and my electrical service drop ripped off the pole. As this cell appeared so fast in our area, I had left in such a hurry that I left my computer and the club

H.A.R.P. Balloon - Satellite Flight a Success, but Frightens Horse

The High Altitude Radio Project's balloon successfully sent a Morse beacon signal through the RS-10/11 satellite's transponder late Saturday morning, June 12, 1993.

The beacon, a converted Motorola HT and EPROM Ider circuit, was launched from Hillsboro, Wisconsin at approximately 15:30 UT by Joe, WB9SBD, and its 145.890 MHz beacon was heard throughout Southern Wisconsin immediately after liftoff.

At approximately 15:48 UT, RS-10/11 came over the Southern Wisconsin horizon, and a few minutes later, Pete, AA9AD, heard and tape recorded the signal on RS-10/11's downlink, thus achieving the main goal of the flight.

The original flight plan called for the balloon to rise to approximately 100,000 feet and burst, lowering the payload to the ground by parachute. Due apparently to an over-aged balloon, the flight ended after approximately one hour when the balloon, still partly inflated, descended into a farmer's field about 20 miles north of Hillsboro.

The brown balloon, orange and black parachute, florescent orange instrument package and especially the beeping Sonalert glued to the outside of the package caused some fright to the horse of the Amish farmer who was plowing the field at the time, but the animal was calmed and the beeping curiosity was put in a metal granary for safekeeping so that plowing could continue.

Unfortunately, this cut the beacon signal to virtually zero, which prevented the dozen or so people searching for the package from locating it, but the weather was great, the package was low value and the search area covered a beautiful part of Wisconsin and everybody enjoyed the afternoon's drive through the country.

At 7:30 Sunday, local time, one of the farmer's neighbors telephoned the number printed on the outside of the beacon, reporting the location of the package, and it was picked up that day, fully intact and still transmitting with the last bit of power in its lithium batteries.

All in all, it was a great first flight for the group and we've already begun planning flight number two. Details of the flight are still being formulated, but the package will include an externally accessible "off" switch for the Sonalert.

- David Mullenix, N9LTD
2502 Brentwood Parkway
Madison, WI 53704
(via packet bulletin)

BBS computer running. My UPS kept the computers running and saved several hours of work that I had not had a chance to save before I left for my spotting site. My electrical power was restored 23 hours later.

Most damage was confined to tree damage in Ripon, with approximately 25% of the mature trees in the funnel path destroyed, 50% seriously damaged. Several buildings and homes lost portions of their roofs or were damaged by falling trees. How ironic it was that this day was planned to dedicate Ripon as a Tree City USA. In all, damage in Ripon was estimated at only \$500,000 to buildings.

Miraculously, only 2 injuries required treatment at the hospital. I have heard from many area people who praised the Amateur Radio operators for getting the warning out in time - most people saying that they listen to our A.R.E.S. net on their scanners when weather conditions appear threatening for the best and most complete information available for our area. Now, that's quite a complement!

One last observation - this was on the 9th anniversary of the Barneveld tornado.

PLEASE NOTE: There were many Amateurs not named in this report who contribute to our ARES nets. They all deserve a "Well Done," for it was the ongoing teamwork and weekly training of the group that made the tracking of this tornado successful.

Field Day Photos Wanted!

If your club or group operated Field Day 1993, we'd like to have a few of your photos of your gang in action to print. Color or black and white pix are acceptable. Please ID the ops/loggers, etc. by name and call sign, and give the name of your club or group and class and location of operation. Please send photos to the editor. See page 2 for the address. Thank!

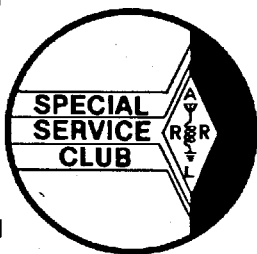
Clubs and Organizations



Riverland Amateur Radio Club

Dick Low, K0JYB,
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES JUNE 1, 1993

The June meeting of the Riverland Amateur Radio Club was called to order by President Bob, N9LZK, at 7:00 p.m. There were 32 people in attendance. Visitors were Bob Wills and Greg Stetzer; both are prospective Hams. Blake Nichols, N9TMZ; David Wiggert, N9TMY; and Larry Olson, KB9FKI, joined the RARC.

The reading of the minutes and the treasurer's report was dispensed with, pursuant to a motion by Feroz, WU9N.

ANNOUNCEMENTS

President Bob, N9LZK, reminded us of the RARC picnic to be held Sunday, June 6, 1993 at the Onalaska Park. Bring your own meat and a dish to pass. Coffee, plates, utensils and condiments will be furnished. The time is 12 noon.

COMMITTEE REPORTS

TECHNICAL: Van, WA9FIO, reported no problems with the repeater.

440 REPEATER GROUP: Kent, W9LZQ, reported that things are moving along well with the first aid kits. They are waiting on the caps, and also are accepting donations. Dan, N9PZC, also reported that Bob, N9LZK, has sold 25 First Aid Kits, Dan has sold 19 kits, Kent 19 kits, and they have taken in enough money to pay off their original investment and have made a profit. Dan is looking for anyone interested in Kits to sell.

HAM FEST: Judy, N9LGV, dropped off some flyers for the Riverland Hobby Electronics Swap Meet, hoping that some of us will distribute them around the area.

OLD BUSINESS

None.

NEW BUSINESS

Feroz, WU9N, reminded us of the Joint RARC-WINONA picnic to be held at Perrot State Park on August 21, 1993. Feroz moved that a sum of \$50 be allotted for the cost of the shelter, paper plates, condiments and so on. The motion was seconded and carried.

AMATEUR RADIO WEEKEND:

Kent and Feroz are working on the project, and Feroz will make an appointment with the Mayor, update the Proclamation, and make a decision on the date.

FAMILY MEMBERSHIPS: Rick, KV9U, asked about family memberships. Karya, N9TMW, daughter of Rick and Judy, N9LGV, is now the 3rd member of the all-ham Family. Rick was wondering if the constitution has any provisions for this situation regarding dues, etc. Walt, AA9-AW, suggested that the secretary be directed to search the minutes and make a report at the next meeting.

Jim Darnell, N9RWL, asked for a report on the recent call up of the SKY-WARN group. Kent, W9LZQ, and Feroz, WU9N, gave a brief synopsis of the event, which took place May 27, 1993. The .97 repeater is the primary frequency, .76 is the secondary frequency, and 146.52 would be used if both repeaters go down.

TRAILER: Greg, KA9FOZ, reported that he no longer has the capability of pulling the trailer. It needs cleaning up badly. President Bob suggested Sat., June 12 as a clean up day and make certain that the generator is working.

Clarence, N9NXW, announced a meeting of the WWRAC (Western Wisconsin Antique Radio Club) at the Day's Inn, Sat. June 5, 1993. This will be a swap meet featuring antique radios and there might even be some old Ham gear. Time will be 9 a.m. to 5 p.m.

Rick, KV9U, informed us of changes that the FCC has made in the VEC set-up. Effective July 1, 1993, all Novice exams will come under the VEC program. It will be necessary to have a formal VEC set-up for the exams. For one year, they will still accept 610 forms that have been dated previous to that date if the person passed one of the elements. The FCC is also going to have a Club Recreation Military Callsign program, where they will give blocks of callsigns to various organizations such as the ARRL. They will most likely be 2x2 callsigns.

The next exam session will most likely be held in November.

Meeting adjourned at 7:25 p.m.

The rest of the evening will be devoted to the auction of equipment willed to the CLUB by Charlie, KA9UUK. □

Wisconsin Nets Association

WNA ON-THE-AIR MEETING MARCH 20, 1993

Chairman Larry Guthu, WB9ICH, called the meeting to order at 1835 UTC, and moved the meeting to 7.281 MHz. After several minutes, a roll call was held on 7.281 MHz.

ROLL CALL

WA9ZTY SEC
KA9KLZ BEN/DEL
N9BDL WSSN MGR.
W9CBE WIN/E
K9FHI WBSN DEL/ASST. SEC
K9KSA WIN/L/STM
W9YCV WIN/E
N9FVN DEL
WD5DTG DEL
WB9YPY BWN/DEL
W9AYK BWN MGR./TREAS.
KE9VU BEN MGR

W9YCV was on short time so old business on the update of the WNA manual was discussed first. Les has some of the manual updated already, like the Constitution, and has a lot of it on computer disc and printed out so it is easy to read. Les has been working on sections of the manual, trying to "marry" old sections with the new. Some areas are a little difficult, and some areas may require a little more discussion. There are a few areas which are obsolete and/or incorrect, and Les was wondering if they should be put into a history section, or deleted. If kept in, it may make for a very lengthy manual.

WB9ICH asked for a motion to approve the December minutes, a correction to the December minutes, W9YCV, Les's names appear with two s's. So, take out your handy markers and everytime you see two s's on Les, cross one out. Also correct N9HWD to N9HNB, (Hot Water Bottle). Minutes approved as written.

WNA Treasurer's Report, March 20, 1993:

Balance on hand,	
December 1, 1992	\$88.67
Service charge correction	\$16.20
Received renewals for BSSS	104.87
4 at \$9.50 and	
1 at \$11.50	
\$49.50	\$154.37
To BSSS same renewals	
4 at \$6.40 (\$32.00)	\$122.37
Balance on hand,	
March 20, 1993	\$122.37

(Submitted by Jim Merrell, W9AYK, treasurer. Jim's report was sent via mail, in order to keep it off the air.)

Badger Weather Net Report, W9-AVK: Our checkins are flat, roughly 68 per session. The traffic is holding steady between 73 and 75 per session.

Badger Emergency Net Report, KE9-VU: BEN doing quite well. Approx. 20-22 checkins per session. Traffic is doing nicely at three to four pieces. We could use more. There are a lot of nice outlets on the BEN. We could use more help on the Ninth Region. W9KKM, KA9VHR, and KA9FVX are doing most of it. Also, thanks to W9CBE and W9YVC as doing a nice job with WIN/L. Thanks to all of our dedicated net control stations and members.

Wisconsin Sideband Net, K9FHI, Del Reporting: No figures are available at this time but everything is running smooth. Sherm W9NGT will be back doing his net control routine soon. We are always looking for more stations and traffic. All the stations that were on the Wisconsin QSO party, why aren't they checking into our nets??

Wisconsin Novice Net: KA9FVX not present; K9KSA reports that Adrian would like to be relieved as manager. He has

Please turn to page 11

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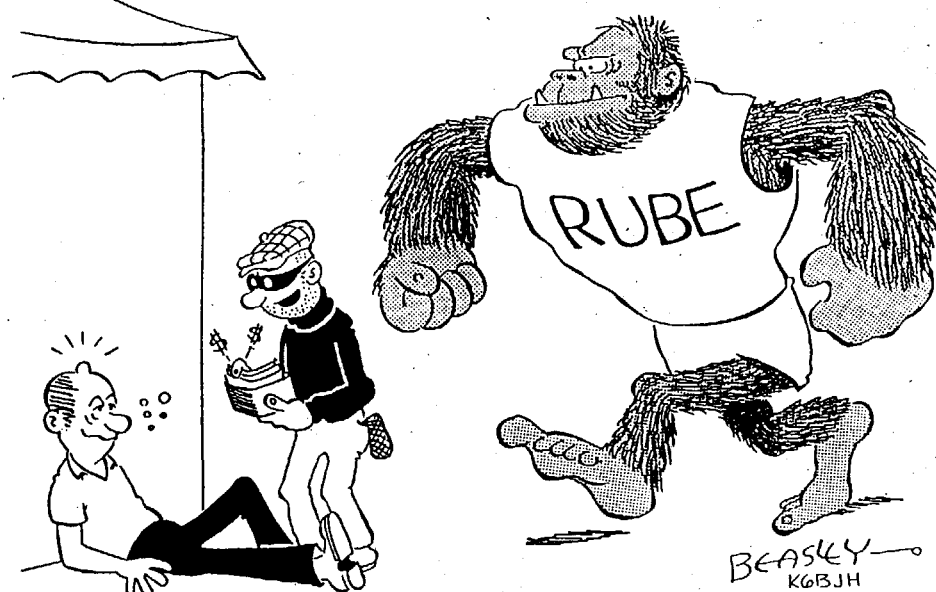
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WHY DO YOU CIRCUS GUYS ALWAYS YELL, "HEY RUBE?"

Taylor County Area Amateur Radio Club

Bernard Jari, KA9WDX, Secretary

W3159 Hanley Lane • Medford, WI 54451-9689

TAYLOR COUNTY AREA AMATEUR RADIO CLUB MEETING ANNOUNCEMENT

The regular monthly meeting will be held on Thursday, July 1, 1993, at 7 p.m. in the Emergency Government meeting room/Red Cross office, located in the basement of the sheriff's annex to the Taylor County Courthouse, on the corner of 2nd and Ogden Streets, across the street from the phone company, in Medford, WI. Talk-in will be on the 147.750/147.150 repeater, located at the N.T.C. Branch Campus.

MEETING MINUTES JUNE 3, 1993

The meeting was called to order at 7:10 p.m. by President N9GEN.

Present were: Mike Schoenfuss, N9GHZ, from Abbotsford; Tom Hrdina, N9GEN, from Gad; Bob Braun, KB9BLV and XYL, and NZ9U, from Dorchester; Joanne Lundgren, N9QVX, from Sheldon; and Lee Markow, N9FZD, Les Laub and XYL, Ray Bohnert, W9QHI and XYL, all from Medford.

The reading of last month's minutes was dispensed with due to the absence of the club secretary, Bernard Jari, KA9WDX.

The treasurer's report was approved as read by the treasurer, N9QVX.

N9GHZ presented a letter to the editor that he planned to submit to the *Star News* concerning a report of an "alleged" ham radio operator in Medford who was intercepting, recording, and playing back telephone calls of conversations between people to other persons. Mike asked for input on the letter, and an endorsement of it from the members present. A motion was made by N9FZD, seconded by KB9BLV, to have the club endorse N9GHZ's letter to the editor to be submitted to the *Star News*. The motion carried. N9GHZ advised that a copy of the letter will first be sent to Byron Engstrom of Midway Telephone Company for his input.

Plans for the 1993 Field Day activities were discussed. The call sign that will be used on Field Day will be NZ9U, with Jack giving his approval. N9GHZ presented a rough draft of a news release

he had prepared for the area news media. After some discussion, and a few minor changes, the members present directed Mike to go ahead with the mailing of the news release.

N9GHZ advised that he had spoken with someone at the Medford City Hall earlier in the day, and he was told that no one was to be in the park past 11 p.m. N9FZD said that he will check back with City Hall, find out if we can get a waiver of that policy for Saturday night, June 26th, and will report back to the TCAARC membership via the weekly Wednesday night ARES net, held on the 147.750/147.150 Medford repeater starting at 8:30 p.m. local time. He stated that he will also see if we can get the Medford City Park reserved for the 1994 Field Day activities.

W9QHI, referring to an article in the June, 1993 issue of *Badger State Smoke Signals* concerning the FCC agreeing to start issuing club call signs again, inquired as to whether or not the club would be interested in applying for a club call sign for such uses as Field Day, other special events, club call sign on the 2-meter repeater's IDer, etc. Since the procedure for applying for a club call sign is not yet in place, the membership present took no action at this time.

N9GHZ reported on a meeting he recently had with Taylor County Emergency Government Coordinator Roland Sacho, who expressed some concern over the length of time it was taking for the club to obtain the antennas and mounting hardware for the new Taylor County Emergency Command Post bus. After some discussion with him, it was decided that he would order a Cushcraft AR-270 antenna and two 10-foot sections of mast, and would look into having a hinged base plate for the mast fabricated.

The items would be paid for out of the Emergency Government's account, and the club would need to reimburse the Emergency Government when the funds were available. A mobile antenna was not decided upon because the bus was not readily available to look over, and it is unknown if any modifications can be done or would have to be done to the bus, and it is also unknown at this time just where in the bus the Amateur Radio equipment will be located. The members present felt that a magnetic-mount type of antenna would work the best, as if we needed to, we could move the antenna to where we

needed to move it to. No action was taken to purchase a mobile antenna at this time. It was decided that we would wait until more information on the bus would become available to us. (Another mobile antenna discussed at a past meeting was a glass-mount type brought up to the club by Bob Goessl, KE9LX. The only thing wrong with a glass-mount would be that it probably wouldn't be as easy to re-locate if we had to move it.)

It was reported that Roland Sacho, Cliff Steevens, WA9YCT, and Mike, N9GHZ, have been working on the club's current grant application to the AnnMarie Foundation. Roland should be close to having the paperwork completed and ready to submit. We are applying for funds to replace the 2-meter repeater's transmitter and for the purchase of the antennas and mounting hardware for the Taylor County Emergency Command Post bus. It will be some time this fall before we will know whether or not our application has been approved for funding.

The club's 2-meter repeater was discussed. N9GHZ reported that he mailed the initial order for the new repeater transmitter to Spectrum Communications on May 18th. A follow-up phone call to them revealed that it may take six to eight weeks for delivery. N9GHZ also reported that he ordered a couple of additional options for the new transmitter, including a CTCSS PL encoder board and a crystal oscillator/oven module. He advised that he paid out of his own pocket for these options and expressed his desire for the club to reimburse him when the funds are available or, if not, he will consider them as donations to the club. No further action was taken concerning this matter.

It was said that Ed Pekol, W9FPE, from Willard, experienced a heart attack, had been in the hospital in Neillsville, and is now back home recuperating. A motion was made by N9GHZ, and seconded by N9GEN, to have the club treasurer purchase and send a get-well card on behalf of the TCAARC to W9FPE. The motion carried.

N9FZD gave a report on the results of the Amateur Radio communications provided for the St. Jude's Hospital "Wheels of Life" Bike-A-Thon, which was held on May 22nd.

N9GHZ then made several general announcements to the members present. A motion was then made by N9GHZ to adjourn the meeting. The motion was seconded by N9FZD, and the motion carried.

The meeting was adjourned at 8:29 p.m.

(Secretary's note: The above minutes were taken by the acting secretary at the meeting, N9GHZ. There was supposed to

be a picnic, and also the Field Day site was to be looked at after the meeting, but it appears as though the picnic was before and during the meeting, and the FD site probably was looked at also at the same time.)

Respectfully submitted:
Bernard L. Jari, Secretary



Clark and Taylor
County Area
Amateur Radio News

CONGRATULATIONS TO....

✓ Aaron Williams (age 13) of Medford, who earned a Novice Class license on May 24th at Medford. Aaron's father, Larry Williams, KB9IQO, also recently earned his Novice Class license. They were both students in an Amateur Radio license course taught by N9GHZ.

✓ Eric Newman, KB9HTX, of Gilman, who graduated from Gilman High School on May 28th. Eric will be attending Chippewa Valley Technical College in Eau Claire this fall and is enrolled in the Protective Services program. Eric's brother Nathan is N9NDT. Nice party, Eric!

✓ Louie (KA9UXN) and Joanie Young of Colby on the occasion of their 25th (silver) wedding anniversary on June 22. They have three children: Scott (N9FZS), Dean (KA9SMQ), and Shelley.

✓ Marty Werner, KB9IQL, of Medford, an eighth-grader at Medford Middle School, who was recently honored for his outstanding academic achievement at the 1993 Wisconsin Talent Search Awards Ceremony in Stevens Point. The event was hosted by the Wisconsin Center for Academically Talented Youth. He received an Olympic-style medal and certificate to commemorate his achievements.

Marty qualified for the award through his participation in a national program for advanced level testing of upper elementary and middle school students. Students who scored in the 95th percentile or higher on their grade-level standardized achievement test elected to take the ACT test (which is typically administered to juniors and seniors for college admission). Those students who scored at or above the mean score for college-bound seniors on the ACT were eligible for the awards ceremony.

OTHER NEWS

✓ Larry Slezniow of Greenwood received his license on May 18th. His call

Continued on page 12

Wisconsin Nets Association

Continued from page 10

picked up some family obligations that will keep him busy for quite sometime. We are looking for a Wisconsin Novice Net Manager.

Wisconsin Slow Speed Net, N9BDL: Meets 6:30 p.m. local time, 3.645 Mhz daily. We are getting regular checkins from out of state, two from Minnesota, two from South Dakota, two from Oklahoma, and one from Illinois. Plus, a bunch of Wisconsin operators, myself, K9KSA, W9NGP and more. The net has been better, we are lucky to get 30 pieces of traffic in a month but this month we got 50! N9KHD, Andy, has been acting as a liaison between WSSN and WIN Early, and has been taking lots of thru traffic. As a result, a Blue sticker has been issued to him, commemorating his activity.

North Woods Traffic Net, N9BDL: Lee is net control every Friday night, as he has been for 13 years. The traffic has been just about the same. Good checkins every night, with a lot of enthusiasm, and the net runs approximately 1/2 hour every evening.

Early WIN, WB9ICH: Everything is pretty much the same. We can always use more checkins and traffic.

STM Report, K9KSA: We made QST again, we have not missed a month yet, as the mail is getting there on time. A couple amonths ago they lost a couple of reports

so several BPLs were not listed 'til several months later. Don is about two years behind on issuing certificates. I do not know what to do about that. (Note to Don. Send me the certificates, and the call letters of the people who get them, and I will get them out. I have the WNA postage and envelopes, etc. Rob, WA9ZTY.)

If anyone would like the STM job, Don really does not have time for it. He would not mind letting it go. I don't mean this to be a negative comment but the section level nets cannot go national, otherwise they will lose their NTS status. (Sec. note: This does not mean that out of state stations cannot check in - WA9ZTY.) Everything is going fine. We have got the best nets in the country!

OLD BUSINESS

KA9KLZ: About three weeks ago, Les down to work on the manual; we got our heads together and we are going to strive to have a copy ready for the June meeting. We have taken the old manual, the 1976 manual, and have taken some of the history out of that book, which should not be lost. We combined that with the 1983 manual and tried to update it and smooth out all the seams, so to speak.

Of course, there was nothing about packet in the old manual, because it wasn't invented back then, so we are writing a

new portion to cover packet operation. Also, we are devoting a section to MARS traffic, which has become quite common. There has been MARS traffic traveling both ways on the nets, and they have a slightly different format coming in and coming out of the MARS system.

We will include copies of the constitution. Thanks to Hale, W9CBE, for typing it all up and putting it all on disc. Once Hale got it on the disc, he made it simple for the rest of us. All of the manual will now be on disc, so when it has to be updated again, it will save a lot of work. (Sec. Note: All the WNA minutes are also on disc now.)

We are trying to have a copy ready for the June meeting so it can be picked apart, additions/deletions, ideas etc., incorporated.

If anybody has any ideas or suggestions for the manual should get in contact with Art, KA9KLZ, or Les, W9YCV.

More Old business: Larry WB9ICH: WB9YPY said the Badger Weather Net is 29 years old, as it was started in 1964. We also will mention the WNA scholarship, which we will put on the back burner; looking at our treasury, things do not look too bright for that right now. If we can get more people involved with the WNA, then possibly we can offer a scholarship.

K9UTQ had mentioned going back to the old meeting ways, where we met at different peoples' QTHs. We started having the meetings on the air to save gas way back in 1973. Previously, we would meet at different places across the state. K9FHI is offering his home for the next meeting

but, the next meeting will be held on June 13, after the Stevens Point Hamfest at 12:00 Noon.

We did not elect a training manager at the last meeting, so we need to do that. Also, Les mentioned we should get some younger names on the WNA corporation papers. Those should be changed. We should have the secretary and treasurer on there.

NEW BUSINESS

K9LGU will not be able to participate in any low band activities for a while. He thought that since he cannot participate that we may want to change the registered agent to the state. We all voted to leave Denny on as our registered agent.

Vote for K9FHI to be head of the picnic committee, second KA9KLZ, all are in favor. Derge County Park will be our WNA picnic site, Sunday, September 12, 1993. A map and all details will be included in the June minutes. Derge county park is located just west of Beaver Dam off of Cty. Highway G. Camping is available, and bring your boat; Derge county park is right on beautiful Beaver Dam Lake. We are going to try and include the meeting notices with the minutes, so we can save money on mailing. The next WNA meeting is June 13, 1993, 12:00 noon, at the Stevens Point Hamfest.

Motion made and seconded to adjourn, meeting adjourned at 1927 UTC.

73, Rob, WA9ZTY, WNA Secretary



WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

P. O. Box 847 • Plover, WI 54467

MEETING MINUTES JUNE 9, 1993

President Art Wysocki, N9BCA, called us to order at 1930, and we took the business meeting first this time.

Secretary Joe Larson, N9JW, handed out a list of all the people who had passed Novice or Technician at the local exam sessions over the past few years, the idea being to contact people on that list and see if you can get them on the air. Elmer, where are you?

Paul Nelles, K9DB, briefed us on emergency evacuation procedures during the Special Olympics summer games. We also discussed the role of Amateur Radio. There was a feeling that we are communicators, not groundkeepers. There was also a feeling that we are there as volunteers to help the athletes have the best experience possible, as best as we can, so if that means we have to diverge from being strictly communicators, that's what we have to do. Most of us agreed with both of these two conflicting ideas.

Making this much more interesting is the fact that the Special Olympics organization rented a couple dozen business band VHF radios and cellular telephones to keep themselves in touch. Simply possessing hand held radios no longer automatically makes us useful. However, our training and skill in using those radios is still a strong point. Is Amateur Radio becoming unnecessary to Special Olympics? Better to ask how we can use our skills as communicators or as technicians to help out the best way we can.

Discussion of the ARRL Club Liability Insurance plan came around again. After comparing the coverage available we decided that the rate was worth paying, and voted to purchase the coverage.

N9BCA reminded us of the preparations for the Swapfest June 13, and the need for helpers at 0600 to unload the dealers. N9JW reminded anyone taking tickets at the door that if anyone was there strictly for the exams, we could not charge them admission. We didn't figure anyone would come and NOT also go to the swapfest, but just in case.

Jim Benak, KA9ACE, reminded us of the Heart Ride set for June 27, also known as Field Day Sunday. Regardless,

he got a rousing response. See you out in the field by starting time of 0900.

Mike Pagel, KA9LAQ, reviewed Field Day plans. We will be on River Road in Plover, near Bob Baird, W9NN's, house. Bring insect repellent, chairs, pens and pencils. We will be 1A. Setup starts around 1000 on Saturday, knock down in the early afternoon Sunday. Saturday afternoon around 1800 we will be having a cookout, with the club springing for brats and burgers. Bring your own drinks, the kids, and perhaps a dish to pass and your own plates. Talk-in and general Field Day activity will be coordinated on the 146.985 repeater.

We officially adjourned and enjoyed some home movies of the 1961 Field Day activity from the local group, then known as Point Radio Amateurs. Nobody fell asleep -- it was amazing to see all these guys when they still had hair! The highlight was watching them set up a TA-33 beam on top of a Jim "Beam" truck. Ever so fitting for a mount.

ATTENDANCE

Joe Larson	N9JW
David Tamres	KB9IIF
Mary Eiden	KA9FAS
Deb Kroll	N9EIL
Gene Kroll	KE9MA
Mike Eiden	WD9JID
Doc Rifleman	WA9N
Lori Jasper	KA9ZGD
Bob Baird	W9NN
Mike Pagel	KA9LAQ
Al Mallek	K9WVM
Loren Larson	N9SEA
Jim Benak	KA9ACE
Art Wysocki	N9BCA
Dave Golla	N9OVT
Joe Omerick	N9CGV
Frank Podach	N9JQR
Wendy Duesterhoeft	KA9WEQ
Joe Mangal	KA9TTU
Ray Sommers	WB9LKC
Frank Guth	W9BCC
Paul Nelles	K9DB
JoAnn Dix	N9NOG
Brian Feltz	WB9E

Respectfully submitted:
Joe Larson, N9JW
CWRA Club Secretary

Mancorad Radio Club

John Meyer, NZ9Z, Secretary

P.O. Box 204 • Manitowoc, WI 54221-0204

The ManCoRad Club will not have regular meetings during June, July, and August.

To keep up on club news, check into

the weekly ManCoRad nets:

SUNDAYS: 10 a.m. on 146.61 MHz.
SUNDAYS: 10:30 a.m. on 3.965 MHz.

Correspondence

MORE SPEED!

Have you ever been on a packet trying to download a file from a remote Bulletin Board and, suddenly, two other people decide that they'd like a file, too, right now?

Did you ever wish that the ham networks had the same utilities as the actual Internet?

Or, perhaps you'd just like to know that our valuable spectrum space is being used wisely?

Most of you have noticed the explosion in 1200 bps FSK packet radio and, if you live in a big city, you know what kind of chaos can happen without a coordinating club or organization. One of the primary

solutions used to avoid having everyone talking over each other is to implement a backbone. But, even with a backbone system, the net lag between sending a command and getting a result is sometimes several minutes, and at very bad times it can be closer to half an hour. The main cause isn't the number of people on packet. It's the method used.

The 1200 bps audio FSK system that has become the de-facto standard for VHF and UHF packet leaves quite a bit to be desired, primarily in speed, and utilization of available bandwidth. An RF modem using the same bandwidth can achieve speeds in the order of 56,000 bps, while using the same amount of spectrum space. Intelligent data compression and packetization can dramatically improve throughput even more. The equipment is out there; you don't have to design it,

Continued on page 13

Eau Claire Amateur Radio Club

J. Brennan Fitzl, N9LIJ, Secretary

1418 Altoona Avenue • Eau Claire, WI 54701

MEETING MINUTES JULY 9, 1993

The meeting was called to order by Vice-President Kevin Zehr at 1935 local time.

The following people were congratulated on their new call signs and welcomed to the Amateur Radio community:

Carol (N9TUA)
Phil (N9TUB)
Karen (N9TTY)
Nancy (N9TTZ)

The minutes of the last meeting were read by Jim (N9LIJ) and approved after extensive discussion over the raffle issue, which was unclear from the last meeting.

Sue (KB9EUP) read the treasurer's report, which was approved by the members.

Birthdays for May and June. The May birthdays did not appear in last month's minutes because of computer problems. N9LIJ apologizes.

May Birthdays

Andy, KA9HWN
Ron, WA9PAM
Fred, W9KTE
Bert, WA9VXE
Joe, KB9R
Dave, K0ZYP
Steve, KA9OMC
Abbie, N9GJF
Dick, N9HDG
Ken, KA9PVY
Leroy, N9RSU

June Birthdays

Steve, WB9NTO
Louis, WA9CCB
Oscar, KD9MP
Vicky, W6OAE
Ross, KC9L
Adam, N9JRC
Terry, N9QXG
Roger, N9ELW
Jerry, NG9A
Wayne, N9CGR
Dick, WD9IUV
Liz, N9EQR
Floyd, KA9KCX
Jeff, N9JMB

OLD BUSINESS

Repeater Cards - Nothing to report in the absence of Bill (W9NNS), who is working on these.

No-Code Tech Classes - N9OHE has not heard from the club he wrote to regarding formats, methods, materials, etc. Word is that they are working on setting up another session in the fall. N9OHE will try to get information at that time.

Field Day - Dan (N9HME) said that NWRC has a space on a farm near Downsville. Volunteers to help with Field Day are Terry (N9QXG) and Leroy (N9RSU). They are all set, apparently. He has talked to Eau Claire people about sites. Shopping mall managers have not responded yet. Parks and Recreation will allow us to use the football press box at Carson Park. The problem with the malls is trailer availability, parking spot for the trailer, and so forth.

Club Trailer - Andy (KA9HWN) has replacement lights for trailer. Fred (KC9NN) made a motion to purchase the lights, and Tom (N9SPK) seconded. Motion was carried. Licensing is not a problem. The brakes that were contemplated are no longer available. He can get other type of brakes, but suggested that we just keep the weight down do we don't need them. He

also wants volunteers to help care for trailer in his absence. N9SPM, KC9NN, N9JMB, and N9LIJ to help work on the trailer. Someone is needed to pull the trailer to get it weighed. Bob (W9BUG) will do this.

Hamfest - Don (WD9IJY) wants volunteers for taking tickets for the hamfest. A sign-up sheet was passed around for members to offer their assistance. N9OHE said that the Boy Scouts have volunteered to help with set-up for a donation. We have enough of our own volunteers from the club. The evening set-up scheduled this year should make things better this year. N9JMA mentioned that tables are getting scarce at reasonable rates. We may, in the future, have to look into other sources of tables. This should be investigated for next year.

Clarification of the door prize/raffle situation for the hamfest next meeting. Admission tickets will be used for hourly drawings, and then returned to the bin for the main prize drawing. Mike (N9JMA) made the motion, N9SPK seconded, and the motion was carried.

Rick (N9SPK) has built and donated a J-pole antenna for use at the TV station during weather emergency nets. He and N9LIJ will be responsible for setting it up.

KA9ELD Repeater Committee Report - Joe (KB9R) said that the suggestion is for an open meeting on the repeater situation after hamfest.

NEW BUSINESS

Bert (W9ZZI) asked about a packet of video tapes which disappeared after a recent club meeting. Anyone who knows of their whereabouts, please let Bert know. Also, he suggested a program at State Patrol Headquarters at some time in the future. The club is interested.

Jim (K9BDN) stated that it may be possible to have a future meeting at the County Communications Center.

Rich (N9SPK) made a motion to have all future programs take place before business meetings. This was seconded by W9ZZI, and carried.

N9SPK also made a motion that the club consider some special fund-raiser to benefit the Mission Eau Claire project. N9JMA suggested maybe an aluminum can drive or similar project. A committee to investigate this will possibly be considered at a later date.

Charlie (N0AKC) mentioned that the June VHF contest will be at 1300 local time Saturday, June 13 to 2200 local time Sunday, June 14.

Clarence (N9NXW) announced the Riverland ARC hamfest on 28 August at Onalaska. This will be a hobby - electronics/Amateur Radio/computer/antique radio combination.

Lunch committee for the next meeting: N9SPM, N9OHE.

Meeting adjourned at 2100 local time.

Respectfully submitted:
J. Brennan Fitzl (N9LIJ)
Secretary

all been on two meters already.

Taylor County News

Continued from page 10

sign is N9TJY. He tested at the VE exam session in Marshfield on March 13th. He is already on the air on two meters, using a Yaesu FT-2400H and a 40-foot-high antenna, and made his first contact on May 28th.

✓ Several students from the Spring, 1993 Amateur Radio license course at Medford have already received their licenses, all on June 8th, as reported to me. They are as follows: Kurt Henline, KB9-IQJ; Jeff Henline, KB9IQK; Marty Werner, KB9IQL; Larry Williams, KB9IQO; and Neal Zuleger, KB9IQP, all of Medford.

KB9IQJ, KB9IQK, and KB9IQL have

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE NEWS

By N9GHZ, ARES
Emergency Coordinator

Four operators assisted in providing Amateur Radio communications for the annual St. Jude's Hospital "Wheels of Life" Bike-A-Thon, which was held in Medford on May 22nd. This was the third year the bike-a-thon has been held, and the second year that Amateur Radio communications services have been provided. There was a total of 25 riders (bikes) this year. Assisting with communications this year were N9FZD and KA9WDX, who assisted for the entire day; N9RRF, who helped in the morning; and N9QWB, who assisted in the afternoon. □

Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

JUNE 14, 1993

The meeting was called to order at 7:30 p.m. by President Dick, W5ONL. The minutes published in *Badger State Smoke Signals* were approved. The treasurer's report shows a balance of \$647.38.

In the absence of Secretary Arne, KA9ZPY, the minutes were taken by Treasurer Dave, AA9HL.

Once again, no quorum was present to vote on the by-law changes. Since we need 2/3 of the members present, please make an attempt to attend the July meeting. The proposed changes to the by-laws should be beneficial to every member.

Larry, WA9JMO, asked who was selected from the club to be on the 1994 Banquet Committee. Don, KB9HAM, Bruce, K9RRS, and Dick, W5ONL, volunteered to represent the Megacycle Club.

A motion was made to mail out ballots to the membership so we can settle the by-law changes once and for all. Bob, W0WLN, Dave AA9HL, and Paul, N9RGW, will make sure ballots are designed and mailed to the members.

Dave, WB9USI, gave a status report on the August 14 hamfest, to be held at South Hills Country Club on I-94 frontage road, between Highways 20 and K. We have heard from Kenwood, Icom, Yaesu, and MFJ. All have donated items for distribution and door prizes. Tables are still available at \$4.00 each. Remember, the hamfest is August 14th from 8 until 2. It is indoors and air conditioned.

Jim, KB9CCY, updated us on Field Day preparations. The logging problems are ready, and this year we will be using the CT keying program for our CW operations. It should be very exciting.

Dave, KC9NG, gave a very interesting program on DXing and how to obtain QSL cards. He and Dick, W5ONL, brought in some of their more interesting cards to show the members. I think several people caught the DX bug after this very interesting meeting.

HAM CALENDAR

Courtesy Racine Megacycle Club

Jul	5	.....	Packet Group
Jul	10	.....	Hamfest at Oak Creek
Jul	12	.....	Megacycle Meeting
Jul	23	.....	Fox Hunt
Jul	24	.....	Hamfest at Eau Claire
Jul	27	.....	Lakeshore Club
Aug	2	.....	Packet Group
Aug	8	.....	Hamfest at Peotone
Aug	9	.....	Megacycle Meeting
Aug	20	.....	Fox Hunt
Sep	4	.....	Testing at Red Cross
Sep	4	.....	Fox Hunt
Sep	6	.....	Packet Group
Sep	12	.....	Hamfest at Joliet
Sep	13	.....	Megacycle Meeting
Sep	17	.....	Fox Hunt
Oct	2	.....	Testing at Red Cross
Oct	4	.....	Packet Group
Oct	10	.....	Hamfest at Waukesha
Oct	11	.....	Megacycle Meeting
Oct	15	.....	Fox Hunt
Oct	26	.....	Lakeshore Club
Nov	1	.....	Packet Group
Nov	6	.....	Testing at Red Cross
Nov	7	.....	Hamfest at Kaukauna
Nov	8	.....	Megacycle Meeting
Nov	7	.....	Hamfest at Kaukauna
Nov	12	.....	Fox Hunt
Nov	27	.....	Fox Hunt
Dec	4	.....	Testing at Red Cross
Dec	6	.....	Packet Group
Dec	10	.....	Fox Hunt
Dec	13	.....	Megacycle Meeting

Larry, WA9JMO, will present the July program. He will be talking about his latest journey to Russia. It promises to be a very informative meeting.

Respectfully submitted:
Dave, AA9HL

Racine Megacycle Club Profiles

By Bill Komistra, W9OVZ • 5101 Graceland Blvd. • Racine, WI 53406

Rev. James R. McChesney, Jr., WA0PFV

In 1963, Buddhist monk Quang Duc immolated himself on a Saigon street to protest the government of South Vietnamese President Ngo Dinh Diem. Now, I would not expect the person being profiled to do likewise to protest his government's policies. Something less drastic, an extremely far distant possibility, maybe. But immolation? Never. He might subject his congregation to a dissertation on hell-fire and damnation, but I think that's about as far as it would go. Keep in mind that these are my own opinions.

Jim's opening comment, "I am thankful for friendships we all receive via ham radio work and fellowship."

Jim's birthday: May 11, 1935. First licensed: 1964. Upgraded to present call and license class: 1965. He didn't state his class of license, so I'll assume he is an Extra. This way, I shouldn't be criticized for assuming incorrectly.

WA0PFV's station equipment: 50-foot tower, Hy-Gain Yagi, Collins S-Line, Yaesu 757, 2 meters, computers, and KAM-TNC.

His preferred mode of communication is working DX on phone.

Awards and certificates are: WAC, DXCC #13184, dozens of 20-meter awards, Wild West Country Cousins #153, dozens of 10-meter (10-X), ISSB #6818, and 10-10 #2719.

Home construction projects are non-existent, since he built three-tube superhets in college in the 1960s.

His ham radio interest started in his early teens, Boy Scouts, and college physics courses in radio electronics.

Jim is a member of the Racine Mega-

cycle Club and Lake Shore Repeater. He was a six-year member of the Rochester, MN ARC and a ten-year member of the Twin Cities DX Club.

Ham experiences include visiting hams in Mexico in 1972 (XE1CI/XE3LK), and visiting in 13 European countries with hams SM4EAC, LX1BJ, etc., from 1974 to the present. Jim also was responsible for having the YLISB three-day convention in Racine during June of 1990.

Relaxation comes by dabbling with water colors (very good), playing musical instruments (I'm guessing they could be anything from a circus calliope to a concert harp), which covers a broad range.

His other interests include travel, stamp collecting, photography (I expected to see some popular brands mentioned, such as Canon, Nikon, Leica, Minolta, etc., but again we'll guess that he has the old, reliable and favorite Kodak Brownie.)

There are no other hams in the family.

Jim's closing comments: "I believe that the use of the radio spectrum is a very special privilege, and self-policing with federal licensing is special in our country vs. other countries."

My own comment: What else can I say, but here is an on-the-go, compassionate, warm man, always willing to give a hand, looking-after-his-flock sort of a person. Jim, we are all happy to have you as a club member and as a part of the Racine community. □

BSSS editor's note: We were not able to print the photo Bill submitted with this profile. Our apologies.

Northern Wisconsin Radio Club

- Since 1923 -

Steve Hart, KA9OMC, Secretary

Route 1, Box 54 • Knapp, WI 54749

Greetings, NWRC members and guests.

The last meeting of NWRC was held on May 25 at the Peppermill Restaurant in the Thunderbird Mall, Menomonie, President N9KIP and yours truly presiding. 15 people were in attendance, and the balance was \$523.28.

OLD BUSINESS

KF9CU, Arlene, reminded us that we should look into using the bulletin board in the *Reminder* for club activities. Continued discussion on media use was a followup by N9HME, Dan, who researched the Eau Claire cable service. Dan informed us that there is an outlet, and that we would need to write something up to be submitted. Nothing more was heard from Cory, AA9GB, about the Menomonie outlet.

The Lammer's fall food stand project was then addressed. Guest N9NPE, Steve Young, was attending, and mentioned that the Springbrook 4-H group would share the work at the stand, and it was decided to go together with them. The dates are September 23, 24, and 25. See the officers for signup times. Work is from 10:30 to 6 p.m.

NEW BUSINESS

Arrangements for the picnic for June 22 were discussed. It was decided that the club should rent the Lions Club shelter at

WaKanda Park in Menomonie. WB9YMB, Jim, and KB9AGC, Melvin, donated \$5 each to get the project going.

Field Day will be at N9KIP, Erik's, grandfather's farm southeast of Menomonie. Take 9th Street to County Y. Watch for signs. Bring what you need for the June 26th and 27th event. Some camping is available. Please, no alcohol. Erik has arranged for a 2500 watt generator, and we will be using a tarp for cover. N9HME, Dan, had followed through with invitations to the Eau Claire club to participate, and it may be possible to use their trailer and generator if someone can transport it.

The next meeting is set for July 27. Meet at the Peppermill at 7:30 p.m. Following our meeting, a program on the HazMat drill at Boyceville was given by Dunn County Emergency Services Director Tom Johnson, N9KMZ. Tom mentioned the drill was part of the 1986 mandated exercise. About 117 people were involved, including seven radio amateurs. The simulated emergency involved a bike accident with a chemical and fuel spill. Tom said, "This was the most complicated exercise we have ever tried." Considering the difficulty, things went well, and Tom thanked everyone for their participation.

73.

NWRC Secretary/Treasurer
Steve Hart, KA9OMC

Correspondence

Continued from page 11

although in some cases you may have to assemble it.

Faster is cheaper, too. A whole 56K setup (not including the computer and antennas) is in the neighborhood of \$300-400. When you compare price to speed, 1200 bps is 16 cents per bit per second, as opposed to 56K's .6 cent per bit per second.

Would you like to see the packet networks become a second Internet? That is possible. A good portion of the Internet

runs at 56 kbps. Many schools can only afford a 56K leased line; the fledgling ham networks can achieve these speeds for fractions of what it costs for those linked to the Internet.

Why not do things right, right off the bat? The future of our networks promises the same kind of growth that we've seen so far, which means more people, more traffic, and unless the network is capable of dealing with the demand, a whole lotta lag.

Think about it the next time your club allocates money for more 2-meter radios and TNCs. You could take the fast lane.

- Chris Anderson, KA9UQO
Chippewa Falls, WI







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ELMER

By Rich Regent, K9GDF





THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

William Schroeder, W9ZBD
4247 Forest Point Drive • Rhinelander, WI 54501

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

WAPR Meeting & Elections, June 13, 1993

The June meeting of WAPR was called to order at 10:09 am at the University of Wisconsin, Stevens Point by the Vice-Chairman, Bob Martin, KA9EOK. Thirty-four members and interested persons were present. Bob reminded everyone that this was an election meeting for WAPR officers.

At Bob's request, a motion was made by N9LLT that the minutes of the last meeting be approved as printed in "Wisconsin Packeteer". The motion was seconded by AA9AW and passed unanimously.

The Treasurer, Bill, W9ZBD, was not present to give a report on the status of the treasury. He forwarded a request to the meeting that he would not be running for another term as Treasurer.

Joel, K9MLD reported that there had been a number of complaints from members that they had received no confirmation of receipt for their dues and had received no membership cards. Joel had talked to WAPR Chairman, Bill, W9NNS about this issue and reported that receipt of dues WILL be acknowledged to the member. This will be a WAPR priority. Joel is also looking into the costs involved in producing and mailing a membership certificate, suitable for framing and proudly displaying in the radio shack, for possible distribution this year. He will talk to the WAPR board when he has firm prices.

Scott, NB9C gave a presentation on the history and efforts of Wisconsin PacketCluster SYSOPS. In Wisconsin, there is no formal organization, however, the small group of SYSOPS are associated with, and recognized by, the Midwest DX Packet Cluster Association which comprises 28 - 30 nodes throughout the Midwest, meaning the 9th callsign district, and as many as 70 other nodes in adjoining states accounting for as many as 700 stations using this network at any one time. In addition to acting as a real-time DX spotting network, the network also supports user accessible databases including a DX database where users can chart DX activities by several parameters such as station, location, time, and frequency; contest database listing rules, dates and times of operation; propagation database to find out best paths and times; and E-mail to post messages to other users or groups. Scott reported that an average of 1000 messages per month pass through the PacketCluster network in Wisconsin. Scott passed to a listing and map of PacketCluster nodes in Wisconsin to all present.

PacketCluster first appeared in Wisconsin about four years ago when KU9Z and KS9K set up a linked node between Elk Grove, IL and Racine, WI. It didn't take long for the link to become overloaded. It shortly became apparent that PacketCluster would show dramatic growth, so, Illinois and Wisconsin groups got together to coordinate their efforts, with WB9TYT becoming the frequency coordinator.

Early on, the objective of the PacketCluster group was to set-up and maintain a separate network from WAPR as TNC parameters varied drastically in optimizing these two systems. PacketCluster deals with numerous, but very small data bursts between the hubs and each user connected to the hub on a constant basis. Response delay times between TNCs must be kept very short in order to be able to acknowledge all stations for each report sent out. The BBS network deals with less numerous but much larger data bursts between hubs and BBSs. BBSs are coordinated as to when they forward through the backbone network in order to avoid conflicts on a single link and maximize throughput. Placing both groups on the same network would result in

incessant packet crash conflicts, slowing both systems to a crawl or stop. This was a lesson learned by early networks that attempted shared Cluster/BBS operations in the east and currently in Minnesota.

Scott explained that he was displeased when word reached him that word was spreading throughout Wisconsin that the PacketCluster network was responsible for incursions into BBS LANs in areas around the state. He realized that the best way to eliminate the misconception was in speaking directly to the various packet groups throughout the state, hence the reason for his presentation here. Scott stated that the cross-band operation onto the BBS LANs by some operators was not sanctioned or encouraged by the PacketCluster SYSOPS in the state for the reasons stated he earlier. Quite simply, these SYSOPS do not have the authority to prevent these few operators from establishing or operating PacketCluster nodes through to BBS LAN frequencies.

The Wisconsin PacketCluster system is not as advanced in equipment to technical resources as WAPR and has no 9600 baud high-speed links established yet, however, they are looking at this as a future expansion option as more operators use the system.

Scott asked for any questions from the floor. A question concerned the Minnesota PacketCluster set-up and Scott outlined some of the problems and limitations that are being experienced there. Scott closed his presentation by recommending that anyone seriously interested in using PacketCluster dedicate a TNC and a 220 MHz radio to realize optimum performance and not use the cross-band links through the BBS LANs. He would be available after the meeting to talk to individuals.

Joel, K9MLD reported that there were some minor problems in the WAPR network. One he described as a minor "hic-up" between Wausau and Timm's Hill on 6 meters. Wausau's radio is not talking to Timm's Hill radio. Joel went through the Timm's Hill radio and it checked out fine. At the end of the month, WIAUW in Wausau will be switched over to 145.63. The radio is ready to be installed. At the same time, a TN-2.10 PROM will update the TNC's backbone node software. When this upgrade is being made, Joel will check out the 6 meter radio and work on the Wausau / Timm's Hill problem.

The network is changing in the Rhinelander area. An agreement has been signed that will go into effect July 1, 1993 between WAPR and the president of Sugar Camp. The W9ZBD node will be retired and the Upper Peninsula will be linked via 440 through Sugar Camp then through 6 meters to Timm's Hill and the rest of the network. The LAN frequency of 146.69 will be changed to 144.93.

As soon as the new officers are installed Joel will issue a new Bandplan listing with these new changes included.

There have been many equipment failures in the network and Joel said that his home is full of equipment with problems of one type or another. He asked that anyone that would like to donate some time to troubleshoot some of this gear, he would be happy to help as much as possible. It is too much for one person to do and he is rapidly falling behind in repairs, upgrades, and installations, as well as finding some family time.

Parts for some of these radios are scarce and Joel asked for everyone to be on the lookout for General Electric Execs for 2 or 6 meters and report to any WAPR officer how many and who to contact. It doesn't matter whether the radios work or not, the parts are what is important.

A discussion followed concerning changing the WIAUW LAN in Wausau from the 145.01 backbone frequency to 145.63. Joel, K9MLD reported that he is experiencing regular retry-outs at Wausau when he is up north trying to connect through back to Hartford or from Hartford trying to connect up north. General consensus was that it might be a result of hidden transmitter syndrome, that the WIAUW node is hearing too well as a result of its superb location. Directional antennas were discussed as a possible solution. Kent, W9LZQ recommended that a committee be appointed to look into the problem.

Bob, KA9EOK brought up a discussion regarding membership and recruitment. A suggestion was brought up that prompt reminders of dues renewal and acknowledgement of dues receipt was mandatory. A renewal notice should be made as effortless as possible for the renewer to fill out and mail in. These suggestions met with all around approval by everyone present.

Elections:

Bob, KA9EOK announced that the floor would be open for nominations for Chairman. Kent, W9LZQ asked if Bill, W9NNS was interested in running again for Chairman or if his absence reflected his desire not to serve another term. Joel, K9MLD reported that Bill had talked to him and indicated that he would accept nomination if it was extended. He also reported that Bill -W9ZBD had sent a letter stating that he would not be running for office and that he would send the Treasurer's materials to his successor. Kent nominated W9NNS for Chairman, seconded by Joel. A motion was made from the floor that nominations be closed, seconded by Joel. Art, NC9G made a motion to nominate the existing Vice-Chairman, Secretary and Trustee, seconded by Kent, W9LZQ. Joel, K9MLD nominated Ted, N9LLT for Treasurer, seconded by Bob, KA9JAC. A motion was made by Joel, K9MLD that nominations be closed, seconded by KA9JAC. Nominations were approved unanimously.

1993/94 Officers

Chairman: Bill, W9NNS
Vice-Chairman: Bob, KA9EOK
Treasurer: Ted, N9LLT
Secretary: Steve, WB9ZRE
Trustee: Bob, N9BKJ

Joel, K9MLD passed out updated maps of the WAPR network, including the changes discussed at this meeting to all present.

A motion was made by Bob, KA9JAC to adjourn the meeting, seconded by Steve, WB9ZRE. The motion passed and the meeting was adjourned at 11:40 a.m.

Respectfully submitted,
Steve, WB9ZRE, Secretary

To My Fellow Packeteers:

This is an open letter of introduction. My name is Ted Heilmann. I am the new treasurer of the (W)isconsin (A)mateur (P)acket (R)adio Association. I was elected to this position on June 13, 1993 during the W.A.P.R. meeting held at the Stevens Point swapfest. I am working on processing the applications that have been forwarded to me by my predecessor, Bill Schroeder (W9ZBD). I would like to thank Bill for his service to WAPR.

Membership cards are in the process of being printed. When I receive the membership cards, each member will receive their card by mail.

Dues are \$15.00 for a one year membership

and are payable by check or money order (do not send cash, please). Membership runs from July 1st. to June 30 and are not prorated. Make checks or money orders payable to: Wisconsin Amateur Packet Radio.

Mail your dues to:
Ted Heilmann (N9LLT)
921 - 8th. Avenue
Grafton, WI 53024
TEL.: (414)-377-6979

Your membership and contributions to WAPR are appreciated. Dues are used to purchase and maintain equipment, pay sight fees, and provide for your subscription to Badger State Smoke Signals where our monthly newsletter is published. With all of our efforts, the network will continue to grow and provide us with a viable link to all of our fellow packeteers.

Thank You,
Ted Heilmann N9LLT @ WB9TYT.WI.USA.NOAM.

Silent Keys



HAROLD A. REIF, KA9YQP, age 92, of Baraboo, died on Thursday, June 10, 1993. He was born in Oshkosh, WI on June 18, 1900. He owned and operated Reif's Radio Service in Oshkosh from 1930-1943, and then worked as Quality Control Technician for SNC in Oshkosh. From 1956 until his 1970 retirement, he worked for Industrial Coils in Baraboo.

The sinking of the Titanic when he was 12 years old led to a lifelong interest in radio communications, as that sinking was the first time radio was used to summon help for a ship in distress. He was active in, among other organizations, the Civil Air Patrol, in which he performed radio maintenance. When he earned his Novice Class Amateur Radio license at age 87, he earned the nickname Harold "It's Never too Late" Reif. He later upgraded to Technician, and enjoyed chatting on ten meters with his Collins gear.

He was a charter member of the Yellow Thunder Amateur Radio Club of Baraboo. He is survived by his wife, Altrude, three sons, eight grandchildren, and five great-grandchildren.

JOHN THOMPSON, WB9SVL, age 64, of Baraboo, died on Sunday, June 20, 1993.

John is survived by his wife, Gladys; his mother, two sisters, two brothers, and a son, Mark Thompson, WB9QZB, of Chicago.

The staff of *Badger State Smoke Signals* extends its sympathy to the families of these radio amateurs.

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)



Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959



The June 17, 1993 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order by Bob Sauvan, WI9Q.

The minutes of the last meeting, as published in the BSSS, were accepted. Jim Decker, WB9UQT, gave the treasurers report.

There was a moment of silence for Harold Reif, KA9YQP, who died last week. Bill Klinkner, N9KXX, club Vice President noted that Harold was one of the club's charter members. Bill stated that a years dues were donated to the Baraboo Optimist youth program in Harold's name. KA9YQP was 93 years old when he died, and had earned his Amateur Radio license in his eighties. He was active in club activities and Amateur Radio until his death.

OLD BUSINESS: Bob Suavan reported on how the club did in the Wisconsin QSO Party. Jim Decker mentioned Peter Sweeney, W9JIB, L.J. Hemmer, WB9TFJ and him self have been discussing the possibility of establishing an ARES in Sauk County.

NEW BUSINESS: None.

Buck night winner was the absent. Marvin Kaiser.

Meeting adjourned at 8:00 p.m. in order to discuss and plan for the upcoming Field Day

activities at Owen Park.

The next meeting of the YTARC will be held Tuesday, July, 13, 1993 at the Baraboo Civic Center, Baraboo, WI.

Respectfully submitted,
Raymond J Matlosz, N9MLZ, Secretary.

The following members and guests were present:

Steven Schwoegler, KA9RNL	Wisconsin Dells
Raymond Matlosz, N9MLZ	Reedsburg
Bill Klinkner, N9KXX	Sauk City
Duane Grotophorst, KA9HKL	Loganville
Mark Snyder, N0MNV	North Freedom
Arthur Kleefisch, W9WSS	Baraboo
Thomas Harrison, N9PQJ	Reedsburg
Richard G Wegner, N9MME	North Freedom
Harry Mayland, K9EFT	Baraboo
Jim Decker, WB9UQT	Baraboo
Jack Kirner, N9LKZ	Prairie du Sac
Harry Westlund, K9EHJ	Baraboo
Jim Paul, N9LKY	Merrimac
Anne Klinkner, N9PQL	Sauk City
Ken Johnson, K9DZG	Mazomanie

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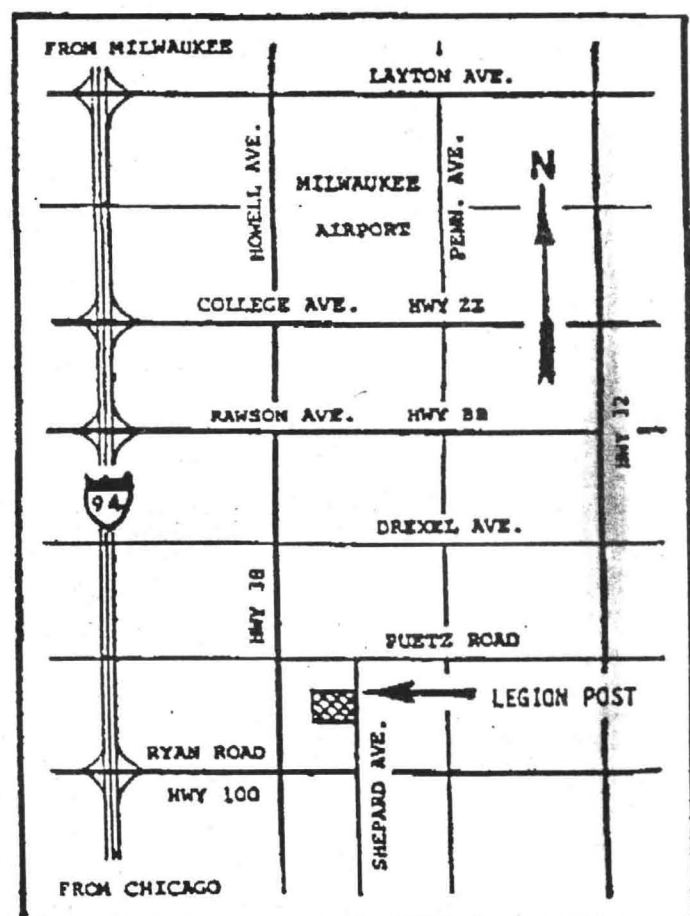
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2410 E. Newberry Ct.
Appleton, WI 54915
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EXAM INFO:
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(715) 834-1303 Eau Claire, WI 54701

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Northern Wisconsin Radio Club

AUCTION

February 22, 1994 • 7:00 p.m.

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